SEQUENCE LISTING

<110> Arizona Board of Regents, acting for and on behalf of, Arizona State University (ABR/ASU)
Massia, Stephen P.
Ehteshami, Gholam R.

<120> Bioselective bioconjugates for anti-inflammatory/immunosuppressant therapies

<130> 130588.00025

<150> 10/295,734
<151> 2002-11-15

<160> 219

<170> PatentIn version 3.2

<210> 1
<211> 54
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(54)

<400> 1
act tac aaa aca aag gag gaa atg ata gta gca acg agt cag acc agt
48
Thr Tyr Lys Thr Lys Glu Glu Met Ile Val Ala Thr Ser Gln Thr Ser

1 5 10 15

caa tat
54
Gln Tyr

<210> 2
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 2

Thr Tyr Lys Thr Lys Glu Glu Met Ile Val Ala Thr Ser Gln Thr Ser
1 5 10 15

Gln Tyr

<210> 3
<211> 15
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 3
cag acc agt caa tat
15
Gln Thr Ser Gln Tyr

1 5

<210> 4
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 4

Gln Thr Ser Gln Tyr
1 5

<210> 5
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 5
ata gca gta ata gga
15
Ile Ala Val Ile Gly

1 5

<210> 6
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 6

Ile Ala Val Ile Gly
1 5

<210> 7
<211> 261
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(261)

<400> 7

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aat ttc cta gag aag ttt gtt cag ggt ctc gat atc ggc cct acc aaa
48
Asn Phe Leu Glu Lys Phe Val Gln Gly Leu Asp Ile Gly Pro Thr Lys

1               5                  10                  15


acc cag gtc ggt ctg ata caa tat gcg aat aat cca cgc tgg ttc aat
96
Thr Gln Val Gly Leu Ile Gln Tyr Ala Asn Asn Pro Arg Trp Phe Asn

            20                  25                  30


cta aat act tat aag act aag gaa gag atg att gtt gct acc tcc cag      1
44
Leu Asn Thr Tyr Lys Thr Lys Glu Glu Met Ile Val Ala Thr Ser Gln

        35                  40                  45


act agc cag tac ggc ggt gat cta aca aat aca ttc gga gcg atc cag      1
92
Thr Ser Gln Tyr Gly Gly Asp Leu Thr Asn Thr Phe Gly Ala Ile Gln

    50                  55                  60


tat gcg cga aaa tat gcg tat tca gcg gcc tct gga ggc cgt cga agt      2
40
Tyr Ala Arg Lys Tyr Ala Tyr Ser Ala Ala Ser Gly Gly Arg Arg Ser

65                  70                  75                  80


gca aca ctt aaa gta atg gtg                                         2
61
Ala Thr Leu Lys Val Met Val

                85
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<210> 8
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 8

Asn Phe Leu Glu Lys Phe Val Gln Gly Leu Asp Ile Gly Pro Thr Lys
1 5 10 15

Thr Gln Val Gly Leu Ile Gln Tyr Ala Asn Asn Pro Arg Trp Phe Asn
20 25 30

Leu Asn Thr Tyr Lys Thr Lys Glu Glu Met Ile Val Ala Thr Ser Gln
35 40 45

Thr Ser Gln Tyr Gly Gly Asp Leu Thr Asn Thr Phe Gly Ala Ile Gln
50 55 60

Tyr Ala Arg Lys Tyr Ala Tyr Ser Ala Ala Ser Gly Gly Arg Arg Ser
65 70 75 80

Ala Thr Leu Lys Val Met Val
85

<210> 9
<211> 294
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS

<222> (1)..(294)

<400> 9

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tac aac gtc gac aca gaa tct gca ctt tta tat cag ggc ccg cat aat
48
Tyr Asn Val Asp Thr Glu Ser Ala Leu Leu Tyr Gln Gly Pro His Asn

1               5                  10                  15


aca ctg ttt ggc tac agt tgg ctc cac tcc cat gga gct cat aga tgg
96
Thr Leu Phe Gly Tyr Ser Trp Leu His Ser His Gly Ala His Arg Trp

            20                  25                  30


cta ctg gta gga gcg cca aca gca atg tgg tta gca atg gca agc gtt      1
44
Leu Leu Val Gly Ala Pro Thr Ala Met Trp Leu Ala Met Ala Ser Val

        35                  40                  45


att aat cct ggg gcc atc tat aga tgc aga ata gga aaa aac cca ggg      1
92
Ile Asn Pro Gly Ala Ile Tyr Arg Cys Arg Ile Gly Lys Asn Pro Gly

    50                  55                  60


cag acg tgt gaa ttg caa ttg ggt tca ttc cac ggt gag ccc ggc ggt      2
40
Gln Thr Cys Glu Leu Gln Leu Gly Ser Phe His Gly Glu Pro Gly Gly

65                  70                  75                  80


aag act tgt cta gag gaa aga gat cac caa tgg ctt ggg gtg acc ctc      2
88
Lys Thr Cys Leu Glu Glu Arg Asp His Gln Trp Leu Gly Val Thr Leu

                85                  90                  95


tcg aga                                                             2
94
Ser Arg
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<210> 10
<211> 98
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 10

Tyr Asn Val Asp Thr Glu Ser Ala Leu Leu Tyr Gln Gly Pro His Asn
1 5 10 15

Thr Leu Phe Gly Tyr Ser Trp Leu His Ser His Gly Ala His Arg Trp
20 25 30

Leu Leu Val Gly Ala Pro Thr Ala Met Trp Leu Ala Met Ala Ser Val
35 40 45

Ile Asn Pro Gly Ala Ile Tyr Arg Cys Arg Ile Gly Lys Asn Pro Gly
50 55 60

Gln Thr Cys Glu Leu Gln Leu Gly Ser Phe His Gly Glu Pro Gly Gly
65 70 75 80

Lys Thr Cys Leu Glu Glu Arg Asp His Gln Trp Leu Gly Val Thr Leu
85 90 95

Ser Arg

<210> 11
<211> 156
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(156)

<400> 11
cag gat tat gta aag aaa ttc ggc gaa cat ttt gca agt tgt caa gca
48
Gln Asp Tyr Val Lys Lys Phe Gly Glu His Phe Ala Ser Cys Gln Ala

1 5 10 15

ggg ata tcc tcg ttc tat acg aaa gac tta atc gta atg ggt gca cca
96
Gly Ile Ser Ser Phe Tyr Thr Lys Asp Leu Ile Val Met Gly Ala Pro

20 25 30

gga tct tca tac tgg aca gga agc tta ttt gta tac atg att acc act 1
44
Gly Ser Ser Tyr Trp Thr Gly Ser Leu Phe Val Tyr Met Ile Thr Thr

35 40 45

aat aag tat aaa 1
56
Asn Lys Tyr Lys

50

<210> 12
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 12

Gln Asp Tyr Val Lys Lys Phe Gly Glu His Phe Ala Ser Cys Gln Ala
1 5 10 15

Gly Ile Ser Ser Phe Tyr Thr Lys Asp Leu Ile Val Met Gly Ala Pro
20 25 30

Gly Ser Ser Tyr Trp Thr Gly Ser Leu Phe Val Tyr Met Ile Thr Thr
35 40 45

Asn Lys Tyr Lys
50

<210> 13
<211> 156
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(156)

<400> 13
cag gat tat gta aag aaa ttc ggc gaa cat ttt gca agt tgt caa gca
48
Gln Asp Tyr Val Lys Lys Phe Gly Glu His Phe Ala Ser Cys Gln Ala
1 5 10 15

ggg ata tcc tcg ttc tat acg aaa gac tta atc gta atg ggt gca cca
96
Gly Ile Ser Ser Phe Tyr Thr Lys Asp Leu Ile Val Met Gly Ala Pro
20 25 30

gga tct tca tac tgg aca gga agc tta ttt gta tac atg att acc act
144
Gly Ser Ser Tyr Trp Thr Gly Ser Leu Phe Val Tyr Met Ile Thr Thr

35 40 45

aat aag tat aaa 1
56
Asn Lys Tyr Lys

50

<210> 14
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 14

Gln Asp Tyr Val Lys Lys Phe Gly Glu His Phe Ala Ser Cys Gln Ala
1 5 10 15

Gly Ile Ser Ser Phe Tyr Thr Lys Asp Leu Ile Val Met Gly Ala Pro
20 25 30

Gly Ser Ser Tyr Trp Thr Gly Ser Leu Phe Val Tyr Met Ile Thr Thr
35 40 45

Asn Lys Tyr Lys
50

<210> 15
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS

<222> (1)..(60)

<400> 15
gga cat aga tgg aaa aac ata ttt tat ata aag aat gaa aat aaa tta
48
Gly His Arg Trp Lys Asn Ile Phe Tyr Ile Lys Asn Glu Asn Lys Leu

1 5 10 15

cca aca gga gga
60
Pro Thr Gly Gly

20

<210> 16
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 16

Gly His Arg Trp Lys Asn Ile Phe Tyr Ile Lys Asn Glu Asn Lys Leu
1 5 10 15

Pro Thr Gly Gly
20

<210> 17
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(33)

<400> 17
gga gga gca cca cag cat gaa caa ata gga aaa
33
Gly Gly Ala Pro Gln His Glu Gln Ile Gly Lys

1 5 10

<210> 18
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 18

Gly Gly Ala Pro Gln His Glu Gln Ile Gly Lys
1 5 10

<210> 19
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(18)

<400> 19
agt tat tgg aca gga agt
18
Ser Tyr Trp Thr Gly Ser

1 5

<210> 20
<211> 6

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 20

Ser Tyr Trp Thr Gly Ser
1 5

<210> 21
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(33)

<400> 21
atg gga gca cca gga agt agt tat tgg aca gga
33
Met Gly Ala Pro Gly Ser Ser Tyr Trp Thr Gly
1 5 10

<210> 22
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 22

Met Gly Ala Pro Gly Ser Ser Tyr Trp Thr Gly
1 5 10

<210> 23
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(111)

<400> 23
tac aat gta gat aca gaa agt gca tta ctc tat caa ggt cca cac aac
48
Tyr Asn Val Asp Thr Glu Ser Ala Leu Leu Tyr Gln Gly Pro His Asn

1 5 10 15

aca ttg ttt ggg tat agt tgg ctt cat agt cat gga gca cac aga tgg
96
Thr Leu Phe Gly Tyr Ser Trp Leu His Ser His Gly Ala His Arg Trp

20 25 30

ctg cta gta ggc gca 1
11
Leu Leu Val Gly Ala

35

<210> 24
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 24

Tyr Asn Val Asp Thr Glu Ser Ala Leu Leu Tyr Gln Gly Pro His Asn
1 5 10 15

Thr Leu Phe Gly Tyr Ser Trp Leu His Ser His Gly Ala His Arg Trp
20 25 30

Leu Leu Val Gly Ala
35

<210> 25
<211> 225
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(225)

<400> 25
ata gta acg tgt ggc cat aga tgg aaa aat att ttt tat atc aaa cac
48
Ile Val Thr Cys Gly His Arg Trp Lys Asn Ile Phe Tyr Ile Lys His

1 5 10 15

gaa aac aaa tta cca aca gga ggg tgt tat ggc gtg ccc ccg gat tta
96
Glu Asn Lys Leu Pro Thr Gly Gly Cys Tyr Gly Val Pro Pro Asp Leu

20 25 30

aga acc gaa tta agt aag aga ata gcc cct ggt tat cag gac tac gtt 1
44
Arg Thr Glu Leu Ser Lys Arg Ile Ala Pro Gly Tyr Gln Asp Tyr Val

35 40 45

aaa aag ttc gga gag cat ttt gct agt tgc caa gca ggt atc agt agt 1
92
Lys Lys Phe Gly Glu His Phe Ala Ser Cys Gln Ala Gly Ile Ser Ser

50 55 60

ttc tac act aag gat tta att gtc atg ggg gcg 2
25
Phe Tyr Thr Lys Asp Leu Ile Val Met Gly Ala

65 70 75

<210> 26
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 26

Ile Val Thr Cys Gly His Arg Trp Lys Asn Ile Phe Tyr Ile Lys His
1 5 10 15

Glu Asn Lys Leu Pro Thr Gly Gly Cys Tyr Gly Val Pro Pro Asp Leu
20 25 30

Arg Thr Glu Leu Ser Lys Arg Ile Ala Pro Gly Tyr Gln Asp Tyr Val
35 40 45

Lys Lys Phe Gly Glu His Phe Ala Ser Cys Gln Ala Gly Ile Ser Ser
50 55 60

Phe Tyr Thr Lys Asp Leu Ile Val Met Gly Ala
65 70 75

<210> 27
<211> 222
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(222)

<400> 27
tac atg att acc act aac aag tat aaa gcg ttt tta ggg aag caa aat
48
Tyr Met Ile Thr Thr Asn Lys Tyr Lys Ala Phe Leu Gly Lys Gln Asn

1 5 10 15

cag gtg aag cca gga agt tat tta ggg tat agt gta ggt gcc ggc cat
96
Gln Val Lys Pro Gly Ser Tyr Leu Gly Tyr Ser Val Gly Ala Gly His

20 25 30

ttc aga agt caa cac acg aca gaa gtt gtc ggc ggt gca cca caa cat 1
44
Phe Arg Ser Gln His Thr Thr Glu Val Val Gly Gly Ala Pro Gln His

35 40 45

gag cag ata gga aaa gct tac atc ttt agt ata gat gaa aaa gaa tta 1
92
Glu Gln Ile Gly Lys Ala Tyr Ile Phe Ser Ile Asp Glu Lys Glu Leu

50 55 60

aat ata tta cac gag atg aag gga aaa aaa 2
22
Asn Ile Leu His Glu Met Lys Gly Lys Lys

65 70

<210> 28
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 28

Tyr Met Ile Thr Thr Asn Lys Tyr Lys Ala Phe Leu Gly Lys Gln Asn
1 5 10 15

Gln Val Lys Pro Gly Ser Tyr Leu Gly Tyr Ser Val Gly Ala Gly His
20 25 30

Phe Arg Ser Gln His Thr Thr Glu Val Val Gly Gly Ala Pro Gln His
35 40 45

Glu Gln Ile Gly Lys Ala Tyr Ile Phe Ser Ile Asp Glu Lys Glu Leu
50 55 60

Asn Ile Leu His Glu Met Lys Gly Lys Lys
65 70

<210> 29
<211> 849
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(849)

<400> 29
tta gga tca tat ttc gga gca tcc gtc ggc gca gtc gac tta cac gct
48
Leu Gly Ser Tyr Phe Gly Ala Ser Val Gly Ala Val Asp Leu His Ala

1 5 10 15

gat ggc ttc tca gac ctg ctc gtc ggt gct ccc atg caa tcg acg ata

96
Asp Gly Phe Ser Asp Leu Leu Val Gly Ala Pro Met Gln Ser Thr Ile
20 25 30

aga gaa gag ggt aga gtt ttt gtt tac atc aat tct gga agc ggg gca 1
44
Arg Glu Glu Gly Arg Val Phe Val Tyr Ile Asn Ser Gly Ser Gly Ala
35 40 45

gtt atg aac gca atg gag aca aac tta gtg gga agt gac aaa tac gca 1
92
Val Met Asn Ala Met Glu Thr Asn Leu Val Gly Ser Asp Lys Tyr Ala
50 55 60

gcg cga ttt ggg gaa tcc atc gtg aat ttg gga gat att gac aat gac 2
40
Ala Arg Phe Gly Glu Ser Ile Val Asn Leu Gly Asp Ile Asp Asn Asp
65 70 75 80

ggg ttt gaa gac gta gcg att gga gca cca cag gag gac gat ctc cag 2
88
Gly Phe Glu Asp Val Ala Ile Gly Ala Pro Gln Glu Asp Asp Leu Gln
85 90 95

gga gct atc tat atc tac aac ggc aga gcg gat ggt ata tct tca aca 3
36
Gly Ala Ile Tyr Ile Tyr Asn Gly Arg Ala Asp Gly Ile Ser Ser Thr
100 105 110

ttt tcc caa aga att gag ggc cta caa ata tcg aag tcg cta tcc atg 3
84
Phe Ser Gln Arg Ile Glu Gly Leu Gln Ile Ser Lys Ser Leu Ser Met
115 120 125

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ttt ggg cag agt att tct ggt cag atc gac gcg gat aac aat ggc tat      4
32
Phe Gly Gln Ser Ile Ser Gly Gln Ile Asp Ala Asp Asn Asn Gly Tyr

    130                 135                 140

gtg gat gta gca gta ggc gcg ttc agg agt gat cgt agc gat tct gct      4
80
Val Asp Val Ala Val Gly Ala Phe Arg Ser Asp Arg Ser Asp Ser Ala

145                 150                 155                 160

gtt ttg tta aga acg cgt cca gtc gtc ata gtg gac gct tca ctt agt      5
28
Val Leu Leu Arg Thr Arg Pro Val Val Ile Val Asp Ala Ser Leu Ser

                165                 170                 175

cat cct gaa tca gta aac cga aca aag ttt gat tgt gtc gag aat ggg      5
76
His Pro Glu Ser Val Asn Arg Thr Lys Phe Asp Cys Val Glu Asn Gly

            180                 185                 190

tgg ccg agc gtg tgt ata gat ctg aca tta tgc ttc tcg tac aaa ggg      6
24
Trp Pro Ser Val Cys Ile Asp Leu Thr Leu Cys Phe Ser Tyr Lys Gly

        195                 200                 205

aag gaa gtt cct ggt tat att gta tta ttc tac aat atg agt ctt gat      6
72
Lys Glu Val Pro Gly Tyr Ile Val Leu Phe Tyr Asn Met Ser Leu Asp

    210                 215                 220

gtt aac cgc aaa gcc gaa tcg cca ccg cgg ttt tat ttc agt agc aat      7
20
Val Asn Arg Lys Ala Glu Ser Pro Pro Arg Phe Tyr Phe Ser Ser Asn

225                 230                 235                 240
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ggt act agt gat gta att act gga agc ata caa gtg tct tcc aga gaa 7
68
Gly Thr Ser Asp Val Ile Thr Gly Ser Ile Gln Val Ser Ser Arg Glu
245 250 255

gcc aac tgc cgg acc cat caa gcc ttc atg cgc aaa gac gta agg gac 8
16
Ala Asn Cys Arg Thr His Gln Ala Phe Met Arg Lys Asp Val Arg Asp
260 265 270

ata tta acc ccc ata cag atc gag gcc gcc tat 8
49
Ile Leu Thr Pro Ile Gln Ile Glu Ala Ala Tyr
275 280

<210> 30
<211> 283
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 30

Leu Gly Ser Tyr Phe Gly Ala Ser Val Gly Ala Val Asp Leu His Ala
1 5 10 15

Asp Gly Phe Ser Asp Leu Leu Val Gly Ala Pro Met Gln Ser Thr Ile
20 25 30

Arg Glu Glu Gly Arg Val Phe Val Tyr Ile Asn Ser Gly Ser Gly Ala
35 40 45

Val Met Asn Ala Met Glu Thr Asn Leu Val Gly Ser Asp Lys Tyr Ala
50 55 60

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Ala Arg Phe Gly Glu Ser Ile Val Asn Leu Gly Asp Ile Asp Asn Asp
65                  70                  75                  80

Gly Phe Glu Asp Val Ala Ile Gly Ala Pro Gln Glu Asp Asp Leu Gln
                85                  90                  95

Gly Ala Ile Tyr Ile Tyr Asn Gly Arg Ala Asp Gly Ile Ser Ser Thr
            100                 105                 110

Phe Ser Gln Arg Ile Glu Gly Leu Gln Ile Ser Lys Ser Leu Ser Met
        115                 120                 125

Phe Gly Gln Ser Ile Ser Gly Gln Ile Asp Ala Asp Asn Asn Gly Tyr
    130                 135                 140

Val Asp Val Ala Val Gly Ala Phe Arg Ser Asp Arg Ser Asp Ser Ala
145                 150                 155                 160

Val Leu Leu Arg Thr Arg Pro Val Val Ile Val Asp Ala Ser Leu Ser
                165                 170                 175

His Pro Glu Ser Val Asn Arg Thr Lys Phe Asp Cys Val Glu Asn Gly
            180                 185                 190

Trp Pro Ser Val Cys Ile Asp Leu Thr Leu Cys Phe Ser Tyr Lys Gly
        195                 200                 205

Lys Glu Val Pro Gly Tyr Ile Val Leu Phe Tyr Asn Met Ser Leu Asp
    210                 215                 220

Val Asn Arg Lys Ala Glu Ser Pro Pro Arg Phe Tyr Phe Ser Ser Asn
225                 230                 235                 240

Gly Thr Ser Asp Val Ile Thr Gly Ser Ile Gln Val Ser Ser Arg Glu
                245                 250                 255
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Ala Asn Cys Arg Thr His Gln Ala Phe Met Arg Lys Asp Val Arg Asp
260 265 270

Ile Leu Thr Pro Ile Gln Ile Glu Ala Ala Tyr
275 280

<210> 31
<211> 1032
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(1032)

<400> 31
tcc tca ata tat gac gac tcc tac ctc gga tac agt gta gcg gtc ggc
48
Ser Ser Ile Tyr Asp Asp Ser Tyr Leu Gly Tyr Ser Val Ala Val Gly

1 5 10 15

gaa ttt tcg gga gac gac aca gaa gat ttt gta gct ggg gtg ccc aaa
96
Glu Phe Ser Gly Asp Asp Thr Glu Asp Phe Val Ala Gly Val Pro Lys

20 25 30

ggg aat ttg act tat ggc tac gtt acc ata cta aat ggt tct gat att 1
44
Gly Asn Leu Thr Tyr Gly Tyr Val Thr Ile Leu Asn Gly Ser Asp Ile

35 40 45

cgt agt tta tat aat ttc agt ggg gag caa atg gca agc tat ttc gga 1
92
Arg Ser Leu Tyr Asn Phe Ser Gly Glu Gln Met Ala Ser Tyr Phe Gly

50 55 60

tat gcg gta gca gcg acc gac gtc aac ggt gat ggg ctg gac gat ttg 2
40
Tyr Ala Val Ala Ala Thr Asp Val Asn Gly Asp Gly Leu Asp Asp Leu

65 70 75 80

ctt gtc ggg gcc ccg tta ctt atg gac cgc act cca gat gga aga cca 2
88
Leu Val Gly Ala Pro Leu Leu Met Asp Arg Thr Pro Asp Gly Arg Pro

85 90 95

cag gaa gtg ggt cgt gta tat gtg tac tta cag cac cca gca ggt ata 3
36
Gln Glu Val Gly Arg Val Tyr Val Tyr Leu Gln His Pro Ala Gly Ile

100 105 110

gag ccg aca ccg act ttg acg cta acc gga cac gac gag ttc ggc cgg 3
84
Glu Pro Thr Pro Thr Leu Thr Leu Thr Gly His Asp Glu Phe Gly Arg

115 120 125

ttt ggc agt tca tta aca ccc ctt gga gac tta gat cag gat gga tac 4
32
Phe Gly Ser Ser Leu Thr Pro Leu Gly Asp Leu Asp Gln Asp Gly Tyr

130 135 140

aat gac gtt gct att ggg gca cca ttt ggt ggc gaa acg caa caa ggt 4
80
Asn Asp Val Ala Ile Gly Ala Pro Phe Gly Gly Glu Thr Gln Gln Gly

145 150 155 160

gta gta ttc gtg ttt cct gga ggc cct gga ggc tta ggc agt aaa cct 5
28
Val Val Phe Val Phe Pro Gly Gly Pro Gly Gly Leu Gly Ser Lys Pro

165 170 175

tcg caa gtt ttg cag cca cta tgg gcc gct agc cat acg ccc gat ttc 5
76.
Ser Gln Val Leu Gln Pro Leu Trp Ala Ala Ser His Thr Pro Asp Phe

180 185 190

ttt ggc agc gct ctg aga ggg ggg agg gac ctc gac ggt aac ggg tat 6
24
Phe Gly Ser Ala Leu Arg Gly Gly Arg Asp Leu Asp Gly Asn Gly Tyr

195 200 205

cct gat ctg atc gtt ggt agt ttt gga gtc gat aag gcg gtg gtc tac 6
72
Pro Asp Leu Ile Val Gly Ser Phe Gly Val Asp Lys Ala Val Val Tyr

210 215 220

aga ggg ggg ccc ata gtt tca gca agt gcc agc ctt acg ata ttc ccc 7
20
Arg Gly Gly Pro Ile Val Ser Ala Ser Ala Ser Leu Thr Ile Phe Pro

225 230 235 240

gcc atg ttt aat cct gag gag aga tct tgc tca ttg gaa ggt aac ccg 7
68
Ala Met Phe Asn Pro Glu Glu Arg Ser Cys Ser Leu Glu Gly Asn Pro

245 250 255

gtc gcg tgt atc aac ctc tcc ttc tgt tta aac gca tcg ggt aaa cat 8
16
Val Ala Cys Ile Asn Leu Ser Phe Cys Leu Asn Ala Ser Gly Lys His

260 265 270

gtg gct gat tcg atc gga ttt aca gta gaa ctt caa cta gat tgg cag 8
64

Val Ala Asp Ser Ile Gly Phe Thr Val Glu Leu Gln Leu Asp Trp Gln
275 280 285

aag caa aaa ggc gga gtt aga cga gcc ctc ttc ctc gca tcc agg cag 912
Lys Gln Lys Gly Gly Val Arg Arg Ala Leu Phe Leu Ala Ser Arg Gln
290 295 300

gcg act tta aca caa acc cta ctg ata cag aac gga gcc aga gag gat 960
Ala Thr Leu Thr Gln Thr Leu Leu Ile Gln Asn Gly Ala Arg Glu Asp
305 310 315 320

tgc cgc gaa atg aag atc tac ctg aga aat gaa tct gag ttc cga gac 1008
Cys Arg Glu Met Lys Ile Tyr Leu Arg Asn Glu Ser Glu Phe Arg Asp
325 330 335

aag tta tct ccg att cat att gct 1032
Lys Leu Ser Pro Ile His Ile Ala
340

<210> 32
<211> 344
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 32

Ser Ser Ile Tyr Asp Asp Ser Tyr Leu Gly Tyr Ser Val Ala Val Gly
1 5 10 15

Glu Phe Ser Gly Asp Asp Thr Glu Asp Phe Val Ala Gly Val Pro Lys
20 25 30

Gly Asn Leu Thr Tyr Gly Tyr Val Thr Ile Leu Asn Gly Ser Asp Ile
35 40 45

Arg Ser Leu Tyr Asn Phe Ser Gly Glu Gln Met Ala Ser Tyr Phe Gly
50 55 60

Tyr Ala Val Ala Ala Thr Asp Val Asn Gly Asp Gly Leu Asp Asp Leu
65 70 75 80

Leu Val Gly Ala Pro Leu Leu Met Asp Arg Thr Pro Asp Gly Arg Pro
85 90 95

Gln Glu Val Gly Arg Val Tyr Val Tyr Leu Gln His Pro Ala Gly Ile
100 105 110

Glu Pro Thr Pro Thr Leu Thr Leu Thr Gly His Asp Glu Phe Gly Arg
115 120 125

Phe Gly Ser Ser Leu Thr Pro Leu Gly Asp Leu Asp Gln Asp Gly Tyr
130 135 140

Asn Asp Val Ala Ile Gly Ala Pro Phe Gly Gly Glu Thr Gln Gln Gly
145 150 155 160

Val Val Phe Val Phe Pro Gly Gly Pro Gly Gly Leu Gly Ser Lys Pro
165 170 175

Ser Gln Val Leu Gln Pro Leu Trp Ala Ala Ser His Thr Pro Asp Phe
180 185 190

Phe Gly Ser Ala Leu Arg Gly Gly Arg Asp Leu Asp Gly Asn Gly Tyr
195 200 205

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Pro Asp Leu Ile Val Gly Ser Phe Gly Val Asp Lys Ala Val Val Tyr
    210                 215                 220

Arg Gly Gly Pro Ile Val Ser Ala Ser Ala Ser Leu Thr Ile Phe Pro
225                 230                 235                 240

Ala Met Phe Asn Pro Glu Glu Arg Ser Cys Ser Leu Glu Gly Asn Pro
                245                 250                 255

Val Ala Cys Ile Asn Leu Ser Phe Cys Leu Asn Ala Ser Gly Lys His
            260                 265                 270

Val Ala Asp Ser Ile Gly Phe Thr Val Glu Leu Gln Leu Asp Trp Gln
        275                 280                 285

Lys Gln Lys Gly Gly Val Arg Arg Ala Leu Phe Leu Ala Ser Arg Gln
    290                 295                 300

Ala Thr Leu Thr Gln Thr Leu Leu Ile Gln Asn Gly Ala Arg Glu Asp
305                 310                 315                 320

Cys Arg Glu Met Lys Ile Tyr Leu Arg Asn Glu Ser Glu Phe Arg Asp
                325                 330                 335

Lys Leu Ser Pro Ile His Ile Ala
            340
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<210> 33
<211> 660
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(660)

<400> 33
agc tac cta gga tat agt gtt gct gta ggc gag ttc agc gga gat gat
48
Ser Tyr Leu Gly Tyr Ser Val Ala Val Gly Glu Phe Ser Gly Asp Asp

1 5 10 15

aca gaa gac ttt gtt gca ggg gtg cct aag ggg aat cta aca tat ggg
96
Thr Glu Asp Phe Val Ala Gly Val Pro Lys Gly Asn Leu Thr Tyr Gly

20 25 30

tac gta aca atc ctc aac gga tcg gat att cgt agt tta tac aat ttc 1
44
Tyr Val Thr Ile Leu Asn Gly Ser Asp Ile Arg Ser Leu Tyr Asn Phe

35 40 45

tcc ggt gag caa atg gcc tca tat ttt gga tac gcc gtt gcg gct acg 1
92
Ser Gly Glu Gln Met Ala Ser Tyr Phe Gly Tyr Ala Val Ala Ala Thr

50 55 60

gac gtt aac ggt gac gga tta gac gat ctt ctt gtg gga gct ccc ctg 2
40
Asp Val Asn Gly Asp Gly Leu Asp Asp Leu Leu Val Gly Ala Pro Leu

65 70 75 80

ctg atg gac cga acc cct gat ggt aga ccc cag gaa gtc gga aga gtc 2
88
Leu Met Asp Arg Thr Pro Asp Gly Arg Pro Gln Glu Val Gly Arg Val

85 90 95

tac gtc tac ttg caa cat ccc gcc ggc ata gaa cca acg cca act tta 3
36
Tyr Val Tyr Leu Gln His Pro Ala Gly Ile Glu Pro Thr Pro Thr Leu

100 105 110

act ctc act ggg cat gac gaa ttt ggt aga ttc ggt tcc tct tta acc 3
84
Thr Leu Thr Gly His Asp Glu Phe Gly Arg Phe Gly Ser Ser Leu Thr
115 120 125

cct ctt ggc gac ttg gac cag gat gga tat aat gat gtg gca ata ggc 4
32
Pro Leu Gly Asp Leu Asp Gln Asp Gly Tyr Asn Asp Val Ala Ile Gly
130 135 140

gcg ccg ttt ggg ggg gag acc cag caa ggc gtg gtg ttc gtc ttt cca 4
80
Ala Pro Phe Gly Gly Glu Thr Gln Gln Gly Val Val Phe Val Phe Pro
145 150 155 160

ggt gga ccg ggt ggg cta ggg tct aaa cca tca caa gtt tta cag cca 5
28
Gly Gly Pro Gly Gly Leu Gly Ser Lys Pro Ser Gln Val Leu Gln Pro
165 170 175

tta tgg gca gcg agt cac acg cca gat ttt ttc ggc agt gca ctc agg 5
76
Leu Trp Ala Ala Ser His Thr Pro Asp Phe Phe Gly Ser Ala Leu Arg
180 185 190

ggt gga cgg gac ttg gac ggc aac ggc tat ccg gat ctg ata gta ggg 6
24
Gly Gly Arg Asp Leu Asp Gly Asn Gly Tyr Pro Asp Leu Ile Val Gly
195 200 205

tcg ttc ggt gta gat aaa gca gta gtc tat cgc ggg 6
60
Ser Phe Gly Val Asp Lys Ala Val Val Tyr Arg Gly

210 215 220

<210> 34
<211> 220
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 34

Ser Tyr Leu Gly Tyr Ser Val Ala Val Gly Glu Phe Ser Gly Asp Asp
1 5 10 15

Thr Glu Asp Phe Val Ala Gly Val Pro Lys Gly Asn Leu Thr Tyr Gly
20 25 30

Tyr Val Thr Ile Leu Asn Gly Ser Asp Ile Arg Ser Leu Tyr Asn Phe
35 40 45

Ser Gly Glu Gln Met Ala Ser Tyr Phe Gly Tyr Ala Val Ala Ala Thr
50 55 60

Asp Val Asn Gly Asp Gly Leu Asp Asp Leu Leu Val Gly Ala Pro Leu
65 70 75 80

Leu Met Asp Arg Thr Pro Asp Gly Arg Pro Gln Glu Val Gly Arg Val
85 90 95

Tyr Val Tyr Leu Gln His Pro Ala Gly Ile Glu Pro Thr Pro Thr Leu
100 105 110

Thr Leu Thr Gly His Asp Glu Phe Gly Arg Phe Gly Ser Ser Leu Thr
115 120 125

Pro Leu Gly Asp Leu Asp Gln Asp Gly Tyr Asn Asp Val Ala Ile Gly

130 135 140

Ala Pro Phe Gly Gly Glu Thr Gln Gln Gly Val Val Phe Val Phe Pro
145 150 155 160

Gly Gly Pro Gly Gly Leu Gly Ser Lys Pro Ser Gln Val Leu Gln Pro
165 170 175

Leu Trp Ala Ala Ser His Thr Pro Asp Phe Phe Gly Ser Ala Leu Arg
180 185 190

Gly Gly Arg Asp Leu Asp Gly Asn Gly Tyr Pro Asp Leu Ile Val Gly
195 200 205

Ser Phe Gly Val Asp Lys Ala Val Val Tyr Arg Gly
210 215 220

<210> 35
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(360)

<400> 35
gca cat ggt tcg agc atc tta gca tgc gct cct ctc tac agc tgg aga
48
Ala His Gly Ser Ser Ile Leu Ala Cys Ala Pro Leu Tyr Ser Trp Arg

1 5 10 15

acg gaa aaa gaa ccc tta tct gat ccg gtc ggg acg tgt tat tta tcg
96
Thr Glu Lys Glu Pro Leu Ser Asp Pro Val Gly Thr Cys Tyr Leu Ser

20 25 30

acc gac aac ttt aca aga atc tta gag tac gcg cca tgt aga tct gat 1
44
Thr Asp Asn Phe Thr Arg Ile Leu Glu Tyr Ala Pro Cys Arg Ser Asp

35 40 45

ttc agt tgg gca gcg ggt caa ggg tat tgc caa ggc ggc ttc agt gcc 1
92
Phe Ser Trp Ala Ala Gly Gln Gly Tyr Cys Gln Gly Gly Phe Ser Ala

50 55 60

gaa ttt act aag acc gga aga gta gtg ctt gga ggt cca gga tca tac 2
40
Glu Phe Thr Lys Thr Gly Arg Val Val Leu Gly Gly Pro Gly Ser Tyr

65 70 75 80

ttt tgg cag ggg caa att cta tcc gct aca caa gag cag ata gca gag 2
88
Phe Trp Gln Gly Gln Ile Leu Ser Ala Thr Gln Glu Gln Ile Ala Glu

85 90 95

agt tat tat cca gaa tac ctg ata aat tta gtt cag ggc cag ttg cag 3
36
Ser Tyr Tyr Pro Glu Tyr Leu Ile Asn Leu Val Gln Gly Gln Leu Gln

100 105 110

act aga caa gcc tca tcc att tat 3
60
Thr Arg Gln Ala Ser Ser Ile Tyr

115 120

<210> 36
<211> 120

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 36

Ala His Gly Ser Ser Ile Leu Ala Cys Ala Pro Leu Tyr Ser Trp Arg
1 5 10 15

Thr Glu Lys Glu Pro Leu Ser Asp Pro Val Gly Thr Cys Tyr Leu Ser
20 25 30

Thr Asp Asn Phe Thr Arg Ile Leu Glu Tyr Ala Pro Cys Arg Ser Asp
35 40 45

Phe Ser Trp Ala Ala Gly Gln Gly Tyr Cys Gln Gly Gly Phe Ser Ala
50 55 60

Glu Phe Thr Lys Thr Gly Arg Val Val Leu Gly Gly Pro Gly Ser Tyr
65 70 75 80

Phe Trp Gln Gly Gln Ile Leu Ser Ala Thr Gln Glu Gln Ile Ala Glu
85 90 95

Ser Tyr Tyr Pro Glu Tyr Leu Ile Asn Leu Val Gln Gly Gln Leu Gln
100 105 110

Thr Arg Gln Ala Ser Ser Ile Tyr
115 120

<210> 37
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(18)

<400> 37
gat ttt agt tgg gca gca
18
Asp Phe Ser Trp Ala Ala

1 5

<210> 38
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 38

Asp Phe Ser Trp Ala Ala
1 5

<210> 39
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(72)

<400> 39
gga gta gac gta gat cag gat ggc gaa aca gag tta ata gga gca cca
48
Gly Val Asp Val Asp Gln Asp Gly Glu Thr Glu Leu Ile Gly Ala Pro

1 5 10 15

tta ttt tat ggt gaa caa aga ggg
72
Leu Phe Tyr Gly Glu Gln Arg Gly

20

<210> 40
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 40

Gly Val Asp Val Asp Gln Asp Gly Glu Thr Glu Leu Ile Gly Ala Pro
1 5 10 15

Leu Phe Tyr Gly Glu Gln Arg Gly
20

<210> 41
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(72)

<400> 41
ata aca gat gga gaa gca aca gac agt gga caa att gat gca gca aaa
48
Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Gln Ile Asp Ala Ala Lys

1 5 10 15

gac atc ata tat att ata gga atc
72
Asp Ile Ile Tyr Ile Ile Gly Ile

20

<210> 42
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 42

Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Gln Ile Asp Ala Ala Lys
1 5 10 15

Asp Ile Ile Tyr Ile Ile Gly Ile
20

<210> 43
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(30)

<400> 43
ata aca gat gga gaa gca aca agt gga tgt
30
Ile Thr Asp Gly Glu Ala Thr Ser Gly Cys

1 5 10

<210> 44
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 44

Ile Thr Asp Gly Glu Ala Thr Ser Gly Cys
1 5 10

<210> 45
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(33)

<400> 45
gga gta gac gta gat caa gat gga gaa aca tgt
33
Gly Val Asp Val Asp Gln Asp Gly Glu Thr Cys

1 5 10

<210> 46
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 46

Gly Val Asp Val Asp Gln Asp Gly Glu Thr Cys
1 5 10

<210> 47
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(24)

<400> 47
tgc cca aat aag gaa aaa gag tgt
24
Cys Pro Asn Lys Glu Lys Glu Cys

1 5

<210> 48
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 48

Cys Pro Asn Lys Glu Lys Glu Cys
1 5

<210> 49
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>

<221> CDS
<222> (1)..(18)

<400> 49
aaa gaa ttt gta agt aca
18
Lys Glu Phe Val Ser Thr

1 5

<210> 50
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 50

Lys Glu Phe Val Ser Thr
1 5

<210> 51
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(51)

<400> 51
cca ata aca caa tta tta gga aga acc cat acg gca act gga ata aga
48
Pro Ile Thr Gln Leu Leu Gly Arg Thr His Thr Ala Thr Gly Ile Arg

1 5 10 15

aaa

51
Lys

<210> 52
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 52

Pro Ile Thr Gln Leu Leu Gly Arg Thr His Thr Ala Thr Gly Ile Arg
1 5 10 15

Lys

<210> 53
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(51)

<400> 53
aaa ttt gga gac cca tta gga tat gaa gat gta ata cca gag gca gat
48
Lys Phe Gly Asp Pro Leu Gly Tyr Glu Asp Val Ile Pro Glu Ala Asp

1 5 10 15

aga
51

Arg

<210> 54
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 54

Lys Phe Gly Asp Pro Leu Gly Tyr Glu Asp Val Ile Pro Glu Ala Asp
1 5 10 15

Arg

<210> 55
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(72)

<400> 55
gga tgt cca caa gaa gat agt gac att gca ttc tta ata gat gga agt
48
Gly Cys Pro Gln Glu Asp Ser Asp Ile Ala Phe Leu Ile Asp Gly Ser

1 5 10 15

gga agt ata atc cca cat gac ttt
72
Gly Ser Ile Ile Pro His Asp Phe

20

<210> 56
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 56

Gly Cys Pro Gln Glu Asp Ser Asp Ile Ala Phe Leu Ile Asp Gly Ser
1 5 10 15

Gly Ser Ile Ile Pro His Asp Phe
20

<210> 57
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(69)

<400> 57
ttt aga aga atg aaa gag ttt gta agt aca gta atg gaa caa tta aag
48
Phe Arg Arg Met Lys Glu Phe Val Ser Thr Val Met Glu Gln Leu Lys

1 5 10 15

aaa agt aag aca tta ttc agt
69
Lys Ser Lys Thr Leu Phe Ser

20

<210> 58
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 58

Phe Arg Arg Met Lys Glu Phe Val Ser Thr Val Met Glu Gln Leu Lys
1 5 10 15

Lys Ser Lys Thr Leu Phe Ser
20

<210> 59
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(54)

<400> 59
gga aat agt ttt cca gca agt tta gta gta gca gca gaa gag gga gag
48
Gly Asn Ser Phe Pro Ala Ser Leu Val Val Ala Ala Glu Glu Gly Glu

1 5 10 15

aga gaa
54
Arg Glu

<210> 60
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 60

Gly Asn Ser Phe Pro Ala Ser Leu Val Val Ala Ala Glu Glu Gly Glu
1 5 10 15

Arg Glu

<210> 61
<211> 84
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(84)

<400> 61
aac gca caa atc gga att gca atg tta gta agt gta gga aat tta gag
48
Asn Ala Gln Ile Gly Ile Ala Met Leu Val Ser Val Gly Asn Leu Glu

1 5 10 15

gaa gca gga gaa agt gta agt ttt caa tta cag ata
84
Glu Ala Gly Glu Ser Val Ser Phe Gln Leu Gln Ile

20 25

<210> 62
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 62

Asn Ala Gln Ile Gly Ile Ala Met Leu Val Ser Val Gly Asn Leu Glu
1 5 10 15

Glu Ala Gly Glu Ser Val Ser Phe Gln Leu Gln Ile
20 25

<210> 63
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(54)

<400> 63
aca tta gga cca agt caa gaa gag aca gga gga gta ttt tta tgt cca
48
Thr Leu Gly Pro Ser Gln Glu Glu Thr Gly Gly Val Phe Leu Cys Pro

1 5 10 15

tgg aga
54
Trp Arg

<210> 64
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 64

Thr Leu Gly Pro Ser Gln Glu Glu Thr Gly Gly Val Phe Leu Cys Pro
1 5 10 15

Trp Arg

<210> 65
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(39)

<400> 65
gca gaa gga gga caa tgt cca agt tta tta ttt gat tta
39
Ala Glu Gly Gly Gln Cys Pro Ser Leu Leu Phe Asp Leu

1 5 10

<210> 66
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 66

Ala Glu Gly Gly Gln Cys Pro Ser Leu Leu Phe Asp Leu
1 5 10

<210> 67
<211> 117
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(117)

<400> 67
gcc atg gtc aca gta ttg gca ttt ctt tgg ctc cca agt cta tat cag
48
Ala Met Val Thr Val Leu Ala Phe Leu Trp Leu Pro Ser Leu Tyr Gln

1 5 10 15

aga cca ctg gat caa ttt gtg tta caa agt cat gct tgg ttc aat gtt
96
Arg Pro Leu Asp Gln Phe Val Leu Gln Ser His Ala Trp Phe Asn Val

20 25 30

agt agt tta cca tac gcg gta 1
17
Ser Ser Leu Pro Tyr Ala Val

35

<210> 68
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 68

Ala Met Val Thr Val Leu Ala Phe Leu Trp Leu Pro Ser Leu Tyr Gln
1 5 10 15

Arg Pro Leu Asp Gln Phe Val Leu Gln Ser His Ala Trp Phe Asn Val
20 25 30

Ser Ser Leu Pro Tyr Ala Val
35

<210> 69
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(36)

<400> 69
gga gca cat tat atg aga gca tta agt aat gta gaa
36
Gly Ala His Tyr Met Arg Ala Leu Ser Asn Val Glu

1 5 10

<210> 70
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 70

Gly Ala His Tyr Met Arg Ala Leu Ser Asn Val Glu
1 5 10

<210> 71
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(12)

<400> 71
gga gca cca tta
12
Gly Ala Pro Leu

1

<210> 72
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 72

Gly Ala Pro Leu
1

<210> 73
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(39)

<400> 73
gga gat gga aga cat gac tta tta gta gga gca cca tta
39
Gly Asp Gly Arg His Asp Leu Leu Val Gly Ala Pro Leu

1 5 10

<210> 74
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 74

Gly Asp Gly Arg His Asp Leu Leu Val Gly Ala Pro Leu
1 5 10

<210> 75
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(33)

<400> 75
aca gat gta aat gga gac gga aga cat gat tta
33
Thr Asp Val Asn Gly Asp Gly Arg His Asp Leu

1 5 10

<210> 76
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 76

Thr Asp Val Asn Gly Asp Gly Arg His Asp Leu
1 5 10

<210> 77
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(36)

<400> 77
gga gat gga aga cat gac tta tta gta gga gca cca
36
Gly Asp Gly Arg His Asp Leu Leu Val Gly Ala Pro

1 5 10

<210> 78
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 78

Gly Asp Gly Arg His Asp Leu Leu Val Gly Ala Pro
1 5 10

<210> 79
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(42)

<400> 79
gga gac gga aga cat gat tta tta gta gga gca cca tta tat
42
Gly Asp Gly Arg His Asp Leu Leu Val Gly Ala Pro Leu Tyr

1 5 10

<210> 80
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 80

Gly Asp Gly Arg His Asp Leu Leu Val Gly Ala Pro Leu Tyr
1 5 10

<210> 81
<211> 681
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(681)

<400> 81
gaa ttt gac ggt gat ctt aat acg act gag tac gtc gtc gga gca cca
48
Glu Phe Asp Gly Asp Leu Asn Thr Thr Glu Tyr Val Val Gly Ala Pro

1 5 10 15

act tgg tcg tgg aca tta ggc gca gtc gag ata ctc gac agt tat tat
96
Thr Trp Ser Trp Thr Leu Gly Ala Val Glu Ile Leu Asp Ser Tyr Tyr

20 25 30

cag agg tta cat aga tta cgt gca gaa cag atg gcg tcc tac ttt ggt 1
44
Gln Arg Leu His Arg Leu Arg Ala Glu Gln Met Ala Ser Tyr Phe Gly

35 40 45

cac agc gta gcg gta acg gat gtg aac gga gac ggc cgc cat gac ttg 1
92
His Ser Val Ala Val Thr Asp Val Asn Gly Asp Gly Arg His Asp Leu

50 55 60

cta gtt gga gct ccg ctc tac atg gag agt cga gca gat cgc aag ctt 2
40
Leu Val Gly Ala Pro Leu Tyr Met Glu Ser Arg Ala Asp Arg Lys Leu

65 70 75 80

gct gaa gtg ggc cga gta tat ctt ttc ctt caa cca cgg ggt ccc cac 2
88
Ala Glu Val Gly Arg Val Tyr Leu Phe Leu Gln Pro Arg Gly Pro His

85 90 95

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gcc cta ggc gct cct agt tta ttg tta acc gga aca cag ttg tat ggt      3
36
Ala Leu Gly Ala Pro Ser Leu Leu Leu Thr Gly Thr Gln Leu Tyr Gly

            100                 105                 110

aga ttc gga tct gca ata gcg cca ctc ggg gat ttg gat aga gat ggc      3
84
Arg Phe Gly Ser Ala Ile Ala Pro Leu Gly Asp Leu Asp Arg Asp Gly

        115                 120                 125

tat aac gat ata gct gtg gcc gcc cct tac gga gga ccc tcc ggc aga      4
32
Tyr Asn Asp Ile Ala Val Ala Ala Pro Tyr Gly Gly Pro Ser Gly Arg

    130                 135                 140

ggg cag gtt ctg gtt ttc cta ggg caa agt gaa ggg tta agg tca aga      4
80
Gly Gln Val Leu Val Phe Leu Gly Gln Ser Glu Gly Leu Arg Ser Arg

145                 150                 155                 160

ccg tct caa gtc tta gac tcg cca ttt cca acc gga agt gcg ttt ggg      5
28
Pro Ser Gln Val Leu Asp Ser Pro Phe Pro Thr Gly Ser Ala Phe Gly

                165                 170                 175

ttc agt ctc cgt ggt gca gtg gac atc gat gac aat ggt tac ccg gat      5
76
Phe Ser Leu Arg Gly Ala Val Asp Ile Asp Asp Asn Gly Tyr Pro Asp

            180                 185                 190

cta att gtt gga gcc tac ggg gcc aat caa gta gca gta tat cgg gcg      6
24
Leu Ile Val Gly Ala Tyr Gly Ala Asn Gln Val Ala Val Tyr Arg Ala

        195                 200                 205
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cag ccc gta gtt aaa gct tca gtc caa ctg ctg ctg caa gac agc ctg 6
72
Gln Pro Val Val Lys Ala Ser Val Gln Leu Leu Gln Asp Ser Leu
210 215 220

aac cct gca 6
81
Asn Pro Ala

225

<210> 82
<211> 227
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 82

Glu Phe Asp Gly Asp Leu Asn Thr Thr Glu Tyr Val Val Gly Ala Pro
1 5 10 15

Thr Trp Ser Trp Thr Leu Gly Ala Val Glu Ile Leu Asp Ser Tyr Tyr
20 25 30

Gln Arg Leu His Arg Leu Arg Ala Glu Gln Met Ala Ser Tyr Phe Gly
35 40 45

His Ser Val Ala Val Thr Asp Val Asn Gly Asp Gly Arg His Asp Leu
50 55 60

Leu Val Gly Ala Pro Leu Tyr Met Glu Ser Arg Ala Asp Arg Lys Leu
65 70 75 80

Ala Glu Val Gly Arg Val Tyr Leu Phe Leu Gln Pro Arg Gly Pro His

85 90 95

Ala Leu Gly Ala Pro Ser Leu Leu Leu Thr Gly Thr Gln Leu Tyr Gly
100 105 110

Arg Phe Gly Ser Ala Ile Ala Pro Leu Gly Asp Leu Asp Arg Asp Gly
115 120 125

Tyr Asn Asp Ile Ala Val Ala Ala Pro Tyr Gly Gly Pro Ser Gly Arg
130 135 140

Gly Gln Val Leu Val Phe Leu Gly Gln Ser Glu Gly Leu Arg Ser Arg
145 150 155 160

Pro Ser Gln Val Leu Asp Ser Pro Phe Pro Thr Gly Ser Ala Phe Gly
165 170 175

Phe Ser Leu Arg Gly Ala Val Asp Ile Asp Asp Asn Gly Tyr Pro Asp
180 185 190

Leu Ile Val Gly Ala Tyr Gly Ala Asn Gln Val Ala Val Tyr Arg Ala
195 200 205

Gln Pro Val Val Lys Ala Ser Val Gln Leu Leu Leu Gln Asp Ser Leu
210 215 220

Asn Pro Ala
225

<210> 83
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(60)

<400> 83
gca gta aca gat gta aat gga gac gga aga cat gat tta tta gta gga
48
Ala Val Thr Asp Val Asn Gly Asp Gly Arg His Asp Leu Leu Val Gly
1 5 10 15

gca cca tta tat
60
Ala Pro Leu Tyr
20

<210> 84
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 84

Ala Val Thr Asp Val Asn Gly Asp Gly Arg His Asp Leu Leu Val Gly
1 5 10 15

Ala Pro Leu Tyr
20

<210> 85
<211> 882
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>

<221> CDS
<222> (1)..(882)

<400> 85
ttt tcc tca gtc gtg aca caa gct ggc gag tta gta ttg ggg gct ccc
48
Phe Ser Ser Val Val Thr Gln Ala Gly Glu Leu Val Leu Gly Ala Pro

1 5 10 15

gga ggc tac tac ttc ctg ggg cta ctc gca cag gca ccc gtg gcg gac
96
Gly Gly Tyr Tyr Phe Leu Gly Leu Leu Ala Gln Ala Pro Val Ala Asp

20 25 30

ata ttc tcg tct tat aga cct ggg att ttg ttg tgg cac gtc tcc tct 1
44
Ile Phe Ser Ser Tyr Arg Pro Gly Ile Leu Leu Trp His Val Ser Ser

35 40 45

cag tct tta agt ttc gat agt agc aat cca gaa tat ttt gac gga tac 1
92
Gln Ser Leu Ser Phe Asp Ser Ser Asn Pro Glu Tyr Phe Asp Gly Tyr

50 55 60

tgg ggg tat tct gtg gca gtc ggt gag ttc gat ggt gat ctg aat act 2
40
Trp Gly Tyr Ser Val Ala Val Gly Glu Phe Asp Gly Asp Leu Asn Thr

65 70 75 80

aca gaa tat gtg gta ggg gct cct aca tgg agt tgg act tta ggc gcg 2
88
Thr Glu Tyr Val Val Gly Ala Pro Thr Trp Ser Trp Thr Leu Gly Ala

85 90 95

gtc gag ata tta gat agc tac tac caa cgc tta cac aga ttg cgt gct 3
36

Val Glu Ile Leu Asp Ser Tyr Tyr Gln Arg Leu His Arg Leu Arg Ala
100 105 110

gaa caa atg gcc tcc tac ttt ggt cat tca gtc gcc gtt acc gat gtg 384
Glu Gln Met Ala Ser Tyr Phe Gly His Ser Val Ala Val Thr Asp Val
115 120 125

aat ggt gat gga cgg cat gac ctc cta gtt gga gct cca ctt tac atg 432
Asn Gly Asp Gly Arg His Asp Leu Leu Val Gly Ala Pro Leu Tyr Met
130 135 140

gag agc aga gcg gac cga aag tta gct gaa gta gga aga gtt tat ttg 480
Glu Ser Arg Ala Asp Arg Lys Leu Ala Glu Val Gly Arg Val Tyr Leu
145 150 155 160

ttc cta caa ccg agg ggc ccg cat gcg ctt ggc gca cct tcc tta ctt 528
Phe Leu Gln Pro Arg Gly Pro His Ala Leu Gly Ala Pro Ser Leu Leu
165 170 175

ctg acc ggt acg caa ctt tac ggg cga ttt ggg tcg gcc att gcg cca 576
Leu Thr Gly Thr Gln Leu Tyr Gly Arg Phe Gly Ser Ala Ile Ala Pro
180 185 190

ctg ggg gac ctt gat cgc gac gga tat aac gac atc gca gtt gcc gcg 624
Leu Gly Asp Leu Asp Arg Asp Gly Tyr Asn Asp Ile Ala Val Ala Ala
195 200 205

cct tat gga ggc cca tcg ggt cgg gga cag gtt cta gtg ttc ctc ggt 672

72
Pro Tyr Gly Gly Pro Ser Gly Arg Gly Gln Val Leu Val Phe Leu Gly
210 215 220

caa agt gaa ggc ctc cgt agt aga ccg agc cag gta ctg gac agt ccg 7
20
Gln Ser Glu Gly Leu Arg Ser Arg Pro Ser Gln Val Leu Asp Ser Pro
225 230 235 240

ttt ccc acg ggc tcg gct ttt ggt ttt tca tta aga ggt gcg gta gac 7
68
Phe Pro Thr Gly Ser Ala Phe Gly Phe Ser Leu Arg Gly Ala Val Asp
245 250 255

atc gat gat aac gga tac ccc gat ctc ata gta ggg gcc tat ggc gcc 8
16
Ile Asp Asp Asn Gly Tyr Pro Asp Leu Ile Val Gly Ala Tyr Gly Ala
260 265 270

aac cag gtc gca gtt tat agg gcc cag cca gta gtg aaa gca tca gtc 8
64
Asn Gln Val Ala Val Tyr Arg Ala Gln Pro Val Val Lys Ala Ser Val
275 280 285

caa tta cta gtt cag gac 8
82
Gln Leu Leu Val Gln Asp
290

<210> 86
<211> 294
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Integrin

<400> 86

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Phe Ser Ser Val Val Thr Gln Ala Gly Glu Leu Val Leu Gly Ala Pro
1               5                  10                  15

Gly Gly Tyr Tyr Phe Leu Gly Leu Leu Ala Gln Ala Pro Val Ala Asp
            20                  25                  30

Ile Phe Ser Ser Tyr Arg Pro Gly Ile Leu Leu Trp His Val Ser Ser
        35                  40                  45

Gln Ser Leu Ser Phe Asp Ser Ser Asn Pro Glu Tyr Phe Asp Gly Tyr
    50                  55                  60

Trp Gly Tyr Ser Val Ala Val Gly Glu Phe Asp Gly Asp Leu Asn Thr
65                  70                  75                  80

Thr Glu Tyr Val Val Gly Ala Pro Thr Trp Ser Trp Thr Leu Gly Ala
                85                  90                  95

Val Glu Ile Leu Asp Ser Tyr Tyr Gln Arg Leu His Arg Leu Arg Ala
            100                 105                 110

Glu Gln Met Ala Ser Tyr Phe Gly His Ser Val Ala Val Thr Asp Val
        115                 120                 125

Asn Gly Asp Gly Arg His Asp Leu Leu Val Gly Ala Pro Leu Tyr Met
    130                 135                 140

Glu Ser Arg Ala Asp Arg Lys Leu Ala Glu Val Gly Arg Val Tyr Leu
145                 150                 155                 160

Phe Leu Gln Pro Arg Gly Pro His Ala Leu Gly Ala Pro Ser Leu Leu
                165                 170                 175
```

Leu Thr Gly Thr Gln Leu Tyr Gly Arg Phe Gly Ser Ala Ile Ala Pro
180 185 190

Leu Gly Asp Leu Asp Arg Asp Gly Tyr Asn Asp Ile Ala Val Ala Ala
195 200 205

Pro Tyr Gly Gly Pro Ser Gly Arg Gly Gln Val Leu Val Phe Leu Gly
210 215 220

Gln Ser Glu Gly Leu Arg Ser Arg Pro Ser Gln Val Leu Asp Ser Pro
225 230 235 240

Phe Pro Thr Gly Ser Ala Phe Gly Phe Ser Leu Arg Gly Ala Val Asp
245 250 255

Ile Asp Asp Asn Gly Tyr Pro Asp Leu Ile Val Gly Ala Tyr Gly Ala
260 265 270

Asn Gln Val Ala Val Tyr Arg Ala Gln Pro Val Val Lys Ala Ser Val
275 280 285

Gln Leu Leu Val Gln Asp
290

<210> 87
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(21)

<400> 87
gta gaa aat gat ttt agt tgg
21

Val Glu Asn Asp Phe Ser Trp

1 5

<210> 88
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 88

Val Glu Asn Asp Phe Ser Trp
1 5

<210> 89
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 89
gga gaa tta gta tta
15
Gly Glu Leu Val Leu

1 5

<210> 90
<211> 5
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Integrin

<400> 90

Gly Glu Leu Val Leu
1 5

<210> 91
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(39)

<400> 91
gat tta tat tat tta atg gac tta agt tac agt atg aaa
39
Asp Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys

1 5 10

<210> 92
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 92

Asp Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys
1 5 10

<210> 93
<211> 16
<212> PRT
<213> Artificial

<220>
<223> Integrin

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Integrin

<220>
<221> misc_feature
<222> (2)..(6)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (8)..(8)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (10)..(10)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (12)..(12)
<223> Xaa can be any naturally occurring amino acid

<400> 93

Asp Xaa Xaa Xaa Xaa Xaa Asp Xaa Ser Xaa Ser Xaa Lys Asp Asp Leu
1 5 10 15

<210> 94
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(324)

<400> 94
tac tgc cga aaa gaa aac tca tcg gaa ata tgt agt aac aat ggg gag
48
Tyr Cys Arg Lys Glu Asn Ser Ser Glu Ile Cys Ser Asn Asn Gly Glu

1 5 10 15

tgc gtc tgc ggc caa tgt gta tgc cgg aaa cgt gac aac aca aac gaa
96
Cys Val Cys Gly Gln Cys Val Cys Arg Lys Arg Asp Asn Thr Asn Glu

20 25 30

atc tat agt gga aag ttt tgt gag tgt gat aat ttc aac tgt gat cgc 1
44
Ile Tyr Ser Gly Lys Phe Cys Glu Cys Asp Asn Phe Asn Cys Asp Arg

35 40 45

agc aat ggc tta ata tgc ggt ggc aat gga gtt tgc aag tgt agg gtg 1
92
Ser Asn Gly Leu Ile Cys Gly Gly Asn Gly Val Cys Lys Cys Arg Val

50 55 60

tgt gaa tgc aat cca aat tat aca ggg agt gca tgc gat tgc tct tta 2
40
Cys Glu Cys Asn Pro Asn Tyr Thr Gly Ser Ala Cys Asp Cys Ser Leu

65 70 75 80

gac act agt acg tgc gag gca tcc aac ggg cag ata tgt aat gga aga 2
88
Asp Thr Ser Thr Cys Glu Ala Ser Asn Gly Gln Ile Cys Asn Gly Arg

85 90 95

ggt att tgt gag tgt ggt gta tgc aaa tgt acc gac 3
24
Gly Ile Cys Glu Cys Gly Val Cys Lys Cys Thr Asp

100 105

<210> 95
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 95

Tyr Cys Arg Lys Glu Asn Ser Ser Glu Ile Cys Ser Asn Asn Gly Glu
1 5 10 15

Cys Val Cys Gly Gln Cys Val Cys Arg Lys Arg Asp Asn Thr Asn Glu
20 25 30

Ile Tyr Ser Gly Lys Phe Cys Glu Cys Asp Asn Phe Asn Cys Asp Arg
35 40 45

Ser Asn Gly Leu Ile Cys Gly Gly Asn Gly Val Cys Lys Cys Arg Val
50 55 60

Cys Glu Cys Asn Pro Asn Tyr Thr Gly Ser Ala Cys Asp Cys Ser Leu
65 70 75 80

Asp Thr Ser Thr Cys Glu Ala Ser Asn Gly Gln Ile Cys Asn Gly Arg
85 90 95

Gly Ile Cys Glu Cys Gly Val Cys Lys Cys Thr Asp
100 105

<210> 96
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(21)

<400> 96
tgt aca agt gaa caa aat tgc
21
Cys Thr Ser Glu Gln Asn Cys

1 5

<210> 97
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 97

Cys Thr Ser Glu Gln Asn Cys
1 5

<210> 98
<211> 708
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(708)

<400> 98
tta cga tta cgc tcg ggc gaa ccc cag aca ttt acg ctt aag ttc aaa
48
Leu Arg Leu Arg Ser Gly Glu Pro Gln Thr Phe Thr Leu Lys Phe Lys

1 5 10 15

cgg gct gag gat tat cct atc gac ctt tac tat ctt atg gat ctc tca 96
Arg Ala Glu Asp Tyr Pro Ile Asp Leu Tyr Tyr Leu Met Asp Leu Ser
20 25 30

tat agt atg aaa gat gat ctg gag aat gtt aag tcc tta ggg acc gat 144
Tyr Ser Met Lys Asp Asp Leu Glu Asn Val Lys Ser Leu Gly Thr Asp
35 40 45

tta atg aac gag atg aga aga atc act tca gac ttc aga att gga ttt 192
Leu Met Asn Glu Met Arg Arg Ile Thr Ser Asp Phe Arg Ile Gly Phe
50 55 60

ggc tct ttt gtc gaa aaa acc gta atg cca tac ata agc aca acc cca 240
Gly Ser Phe Val Glu Lys Thr Val Met Pro Tyr Ile Ser Thr Thr Pro
65 70 75 80

gca aag ctg agg aat ccg tgt aca tcg gag caa aac tgc act act ccc 288
Ala Lys Leu Arg Asn Pro Cys Thr Ser Glu Gln Asn Cys Thr Thr Pro
85 90 95

ttc agt tat aag aat gtt ctc agt ctg acg aac aaa ggg gaa gta ttt 336
Phe Ser Tyr Lys Asn Val Leu Ser Leu Thr Asn Lys Gly Glu Val Phe
100 105 110

aac gag cta gtg gga aaa cag aga att agc ggt aac ctc gac tct cca 384
Asn Glu Leu Val Gly Lys Gln Arg Ile Ser Gly Asn Leu Asp Ser Pro

115 120 125

gaa ggt ggt ttt gat gca att atg caa gtt gca gtg tgt gga tct cta 4
32
Glu Gly Gly Phe Asp Ala Ile Met Gln Val Ala Val Cys Gly Ser Leu
130 135 140

ata ggg tgg cgt aat gta act aga cta ttg gtg ttt tcc acc gac gcc 4
80
Ile Gly Trp Arg Asn Val Thr Arg Leu Leu Val Phe Ser Thr Asp Ala
145 150 155 160

ggc ttc cac ttc gct gga gac ggc aag cta ggg gga atc gta ttg cct 5
28
Gly Phe His Phe Ala Gly Asp Gly Lys Leu Gly Gly Ile Val Leu Pro
165 170 175

aac gat ggt cag tgc cat ttg gaa aat aat atg tat acg atg tcg cac 5
76
Asn Asp Gly Gln Cys His Leu Glu Asn Asn Met Tyr Thr Met Ser His
180 185 190

tac tac gac tac cca tcc ata gcc cat tta gtc caa aag ctg agc gaa 6
24
Tyr Tyr Asp Tyr Pro Ser Ile Ala His Leu Val Gln Lys Leu Ser Glu
195 200 205

aac aat att caa aca ata ttt gcg gta acg gaa gag ttc cag cca gtc 6
72
Asn Asn Ile Gln Thr Ile Phe Ala Val Thr Glu Glu Phe Gln Pro Val
210 215 220

tat aag gag ctt aaa aat ctc atc ccg aaa tca gcg 7
08

Tyr Lys Glu Leu Lys Asn Leu Ile Pro Lys Ser Ala
225 230 235

<210> 99
<211> 236
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 99

Leu Arg Leu Arg Ser Gly Glu Pro Gln Thr Phe Thr Leu Lys Phe Lys
1 5 10 15

Arg Ala Glu Asp Tyr Pro Ile Asp Leu Tyr Tyr Leu Met Asp Leu Ser
20 25 30

Tyr Ser Met Lys Asp Asp Leu Glu Asn Val Lys Ser Leu Gly Thr Asp
35 40 45

Leu Met Asn Glu Met Arg Arg Ile Thr Ser Asp Phe Arg Ile Gly Phe
50 55 60

Gly Ser Phe Val Glu Lys Thr Val Met Pro Tyr Ile Ser Thr Thr Pro
65 70 75 80

Ala Lys Leu Arg Asn Pro Cys Thr Ser Glu Gln Asn Cys Thr Thr Pro
85 90 95

Phe Ser Tyr Lys Asn Val Leu Ser Leu Thr Asn Lys Gly Glu Val Phe
100 105 110

Asn Glu Leu Val Gly Lys Gln Arg Ile Ser Gly Asn Leu Asp Ser Pro
115 120 125

Glu Gly Gly Phe Asp Ala Ile Met Gln Val Ala Val Cys Gly Ser Leu
130 135 140

Ile Gly Trp Arg Asn Val Thr Arg Leu Leu Val Phe Ser Thr Asp Ala
145 150 155 160

Gly Phe His Phe Ala Gly Asp Gly Lys Leu Gly Gly Ile Val Leu Pro
165 170 175

Asn Asp Gly Gln Cys His Leu Glu Asn Asn Met Tyr Thr Met Ser His
180 185 190

Tyr Tyr Asp Tyr Pro Ser Ile Ala His Leu Val Gln Lys Leu Ser Glu
195 200 205

Asn Asn Ile Gln Thr Ile Phe Ala Val Thr Glu Glu Phe Gln Pro Val
210 215 220

Tyr Lys Glu Leu Lys Asn Leu Ile Pro Lys Ser Ala
225 230 235

<210> 100
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(36)

<400> 100
aac aag gga gaa gta ttt aat gag tta gta gga aaa
36
Asn Lys Gly Glu Val Phe Asn Glu Leu Val Gly Lys

1 5 10

<210> 101
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 101

Asn Lys Gly Glu Val Phe Asn Glu Leu Val Gly Lys
1 5 10

<210> 102
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 102
aca gca gaa aaa tta
15
Thr Ala Glu Lys Leu

1 5

<210> 103
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 103

Thr Ala Glu Lys Leu
1 5

<210> 104
<211> 78
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(78)

<400> 104
gat tac cca ata gac tta tac tat tta atg gac tta agt tat agt atg
48
Asp Tyr Pro Ile Asp Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met

1 5 10 15

aag gat gat tta gaa gta aaa agt tta gga
78
Lys Asp Asp Leu Glu Val Lys Ser Leu Gly

20 25

<210> 105
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 105

Asp Tyr Pro Ile Asp Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met
1 5 10 15

Lys Asp Asp Leu Glu Val Lys Ser Leu Gly

20 25

<210> 106
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(60)

<400> 106
aat gta aag agt tta gga aca gca tta atg aga gag atg gaa aaa ata
48
Asn Val Lys Ser Leu Gly Thr Ala Leu Met Arg Glu Met Glu Lys Ile
1 5 10 15

aca agt gat ttt
60
Thr Ser Asp Phe
20

<210> 107
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 107

Asn Val Lys Ser Leu Gly Thr Ala Leu Met Arg Glu Met Glu Lys Ile
1 5 10 15

Thr Ser Asp Phe
20

<210> 108
<211> 744
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(744)

<400> 108
gga caa aaa cag tta agt ccg cag aag gtc act cta tac ttg cgt ccc
48
Gly Gln Lys Gln Leu Ser Pro Gln Lys Val Thr Leu Tyr Leu Arg Pro

1 5 10 15

ggg caa gca gcc gcg ttc aac gta acg ttt cgt cgc gca aaa gga tac
96
Gly Gln Ala Ala Ala Phe Asn Val Thr Phe Arg Arg Ala Lys Gly Tyr

20 25 30

cca ata gac ctt tat tat tta atg gat tta tcc tac tca atg ctc gat 1
44
Pro Ile Asp Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Leu Asp

35 40 45

gat tta aga aac gtt aag aag tta ggc ggg gat ctg ctc aga gct ctc 1
92
Asp Leu Arg Asn Val Lys Lys Leu Gly Gly Asp Leu Leu Arg Ala Leu

50 55 60

aat gag ata act gaa agt ggt cgg ata ggt ttc ggt tcg ttc gtt gat 2
40
Asn Glu Ile Thr Glu Ser Gly Arg Ile Gly Phe Gly Ser Phe Val Asp

65 70 75 80

aag acg gtg ctg ccc ttt gta aat aca cac cca gac aaa ctg agg aac 2
88
Lys Thr Val Leu Pro Phe Val Asn Thr His Pro Asp Lys Leu Arg Asn
85 90 95

ccc tgc cca aat aag gag aaa gaa tgc cag ccg cct ttc gct ttt cgc 3
36
Pro Cys Pro Asn Lys Glu Lys Glu Cys Gln Pro Pro Phe Ala Phe Arg
100 105 110

cat gtc cta aaa tta aca aat aat agc aat caa ttt cag acc gag gta 3
84
His Val Leu Lys Leu Thr Asn Asn Ser Asn Gln Phe Gln Thr Glu Val
115 120 125

gga aaa caa ctt att agt gga aac tta gac gcc cca gag ggc ggc tta 4
32
Gly Lys Gln Leu Ile Ser Gly Asn Leu Asp Ala Pro Glu Gly Gly Leu
130 135 140

gac gca atg atg caa gta gca gcc tgt ccg gag gaa att ggt tgg cgg 4
80
Asp Ala Met Met Gln Val Ala Ala Cys Pro Glu Glu Ile Gly Trp Arg
145 150 155 160

aat gtc acc agg ttg ttg gta ttt gcc act gac gat gga ttc cat ttt 5
28
Asn Val Thr Arg Leu Leu Val Phe Ala Thr Asp Asp Gly Phe His Phe
165 170 175

gct gga gat ggc aag cta ggg gcg att ctt acc cct aac gac ggg cga 5
76
Ala Gly Asp Gly Lys Leu Gly Ala Ile Leu Thr Pro Asn Asp Gly Arg

180 185 190

tgt cac ctc gaa gac aac cta tat aag aga agt aat gaa ttc gat tat 624
Cys His Leu Glu Asp Asn Leu Tyr Lys Arg Ser Asn Glu Phe Asp Tyr
195 200 205

cca tct gtg gga caa ctg gcg cat aag ttg gct gag aac aac ata cag 672
Pro Ser Val Gly Gln Leu Ala His Lys Leu Ala Glu Asn Asn Ile Gln
210 215 220

cca atc ttt gca gtt aca agt cga atg gtg aaa aca tac gaa aaa ctt 720
Pro Ile Phe Ala Val Thr Ser Arg Met Val Lys Thr Tyr Glu Lys Leu
225 230 235 240

acg gaa atc atc cct aaa agt gcg 744
Thr Glu Ile Ile Pro Lys Ser Ala
245

<210> 109
<211> 248
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 109

Gly Gln Lys Gln Leu Ser Pro Gln Lys Val Thr Leu Tyr Leu Arg Pro
1 5 10 15

Gly Gln Ala Ala Ala Phe Asn Val Thr Phe Arg Arg Ala Lys Gly Tyr

20 25 30

Pro Ile Asp Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Leu Asp
35 40 45

Asp Leu Arg Asn Val Lys Lys Leu Gly Gly Asp Leu Leu Arg Ala Leu
50 55 60

Asn Glu Ile Thr Glu Ser Gly Arg Ile Gly Phe Gly Ser Phe Val Asp
65 70 75 80

Lys Thr Val Leu Pro Phe Val Asn Thr His Pro Asp Lys Leu Arg Asn
85 90 95

Pro Cys Pro Asn Lys Glu Lys Glu Cys Gln Pro Pro Phe Ala Phe Arg
100 105 110

His Val Leu Lys Leu Thr Asn Asn Ser Asn Gln Phe Gln Thr Glu Val
115 120 125

Gly Lys Gln Leu Ile Ser Gly Asn Leu Asp Ala Pro Glu Gly Gly Leu
130 135 140

Asp Ala Met Met Gln Val Ala Ala Cys Pro Glu Glu Ile Gly Trp Arg
145 150 155 160

Asn Val Thr Arg Leu Leu Val Phe Ala Thr Asp Asp Gly Phe His Phe
165 170 175

Ala Gly Asp Gly Lys Leu Gly Ala Ile Leu Thr Pro Asn Asp Gly Arg
180 185 190

Cys His Leu Glu Asp Asn Leu Tyr Lys Arg Ser Asn Glu Phe Asp Tyr
195 200 205

Pro Ser Val Gly Gln Leu Ala His Lys Leu Ala Glu Asn Asn Ile Gln

210 215 220

Pro Ile Phe Ala Val Thr Ser Arg Met Val Lys Thr Tyr Glu Lys Leu
225 230 235 240

Thr Glu Ile Ile Pro Lys Ser Ala
245

<210> 110
<211> 783
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(783)

<400> 110
tac cca ata gat ctc tac tac ctg atg gat cta tcc tat tca atg ctg
48
Tyr Pro Ile Asp Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Leu

1 5 10 15

gac gat cta cgt aac gtt aag aaa ctt gga ggt gat tta cta aga gct
96
Asp Asp Leu Arg Asn Val Lys Lys Leu Gly Gly Asp Leu Leu Arg Ala

20 25 30

ctt aac gaa atc acg gag agt ggg cga atc ggc ttc ggc tca ttc gtc 1
44
Leu Asn Glu Ile Thr Glu Ser Gly Arg Ile Gly Phe Gly Ser Phe Val

35 40 45

gac aag aca gta ttg ccc ttc gta aac acg cac cca gac aag ctt aga 1
92

Asp Lys Thr Val Leu Pro Phe Val Asn Thr His Pro Asp Lys Leu Arg
50 55 60

aac ccc tgc cca aat aaa gag aaa gag tgt caa ccc ccg ttt gcc ttt 240
Asn Pro Cys Pro Asn Lys Glu Lys Glu Cys Gln Pro Pro Phe Ala Phe
65 70 75 80

aga cat gtc tta aag ctc acg aat aac agc aat cag ttt cag aca gaa 288
Arg His Val Leu Lys Leu Thr Asn Asn Ser Asn Gln Phe Gln Thr Glu
85 90 95

gtt gga aaa caa ctg ata tcg ggt aat cta gac gca cca gag ggg gga 336
Val Gly Lys Gln Leu Ile Ser Gly Asn Leu Asp Ala Pro Glu Gly Gly
100 105 110

ctt gat gcc atg atg cag gtg gca gcc tgc ccg gag gaa att ggg tgg 384
Leu Asp Ala Met Met Gln Val Ala Ala Cys Pro Glu Glu Ile Gly Trp
115 120 125

agg aat gtc aca aga ctg cta gtt ttc gca act gat gac ggg ttt cat 432
Arg Asn Val Thr Arg Leu Leu Val Phe Ala Thr Asp Asp Gly Phe His
130 135 140

ttt gct gga gat ggt aaa ctg ggc gca att ttg act cct aac gat gga 480
Phe Ala Gly Asp Gly Lys Leu Gly Ala Ile Leu Thr Pro Asn Asp Gly
145 150 155 160

cgg tgt cat ttg gaa gac aac ctc tat aaa aga agc aat gaa ttc gac 528

28
Arg Cys His Leu Glu Asp Asn Leu Tyr Lys Arg Ser Asn Glu Phe Asp
165 170 175

tat cct agt gta ggt caa tta gcg cac aag tta gca gaa aac aat ata 5
76
Tyr Pro Ser Val Gly Gln Leu Ala His Lys Leu Ala Glu Asn Asn Ile
180 185 190

caa ccg ata ttt gcg gtt acc agt cgc atg gtg aaa aca tac gaa aag 6
24
Gln Pro Ile Phe Ala Val Thr Ser Arg Met Val Lys Thr Tyr Glu Lys
195 200 205

tta acc gag ata att cca aaa tct gct gtg ggc gag ctc tcc gaa gat 6
72
Leu Thr Glu Ile Ile Pro Lys Ser Ala Val Gly Glu Leu Ser Glu Asp
210 215 220

agt agt aat gtc gta cac ttg atc aag aat gca tat aac aaa tta tct 7
20
Ser Ser Asn Val Val His Leu Ile Lys Asn Ala Tyr Asn Lys Leu Ser
225 230 235 240

agt aga gta ttt ttg gac cat aat gcg ctt cct gat act ctc aag gtg 7
68
Ser Arg Val Phe Leu Asp His Asn Ala Leu Pro Asp Thr Leu Lys Val
245 250 255

acc tat gac tcg ttc 7
83
Thr Tyr Asp Ser Phe
260

<210> 111
<211> 261
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 111

Tyr Pro Ile Asp Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Leu
1 5 10 15

Asp Asp Leu Arg Asn Val Lys Lys Leu Gly Gly Asp Leu Leu Arg Ala
20 25 30

Leu Asn Glu Ile Thr Glu Ser Gly Arg Ile Gly Phe Gly Ser Phe Val
35 40 45

Asp Lys Thr Val Leu Pro Phe Val Asn Thr His Pro Asp Lys Leu Arg
50 55 60

Asn Pro Cys Pro Asn Lys Glu Lys Glu Cys Gln Pro Pro Phe Ala Phe
65 70 75 80

Arg His Val Leu Lys Leu Thr Asn Asn Ser Asn Gln Phe Gln Thr Glu
85 90 95

Val Gly Lys Gln Leu Ile Ser Gly Asn Leu Asp Ala Pro Glu Gly Gly
100 105 110

Leu Asp Ala Met Met Gln Val Ala Ala Cys Pro Glu Glu Ile Gly Trp
115 120 125

Arg Asn Val Thr Arg Leu Leu Val Phe Ala Thr Asp Asp Gly Phe His
130 135 140

Phe Ala Gly Asp Gly Lys Leu Gly Ala Ile Leu Thr Pro Asn Asp Gly

145 150 155 160

Arg Cys His Leu Glu Asp Asn Leu Tyr Lys Arg Ser Asn Glu Phe Asp
165 170 175

Tyr Pro Ser Val Gly Gln Leu Ala His Lys Leu Ala Glu Asn Asn Ile
180 185 190

Gln Pro Ile Phe Ala Val Thr Ser Arg Met Val Lys Thr Tyr Glu Lys
195 200 205

Leu Thr Glu Ile Ile Pro Lys Ser Ala Val Gly Glu Leu Ser Glu Asp
210 215 220

Ser Ser Asn Val Val His Leu Ile Lys Asn Ala Tyr Asn Lys Leu Ser
225 230 235 240

Ser Arg Val Phe Leu Asp His Asn Ala Leu Pro Asp Thr Leu Lys Val
245 250 255

Thr Tyr Asp Ser Phe
260

<210> 112
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 112
aga aat gta aaa aag
15
Arg Asn Val Lys Lys

1 5

<210> 113
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 113

Arg Asn Val Lys Lys
1 5

<210> 114
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 114
caa cca cca ttt gca
15
Gln Pro Pro Phe Ala

1 5

<210> 115
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 115

Gln Pro Pro Phe Ala
1 5

<210> 116
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(18)

<400> 116
tta ata agt gga aat tta
18
Leu Ile Ser Gly Asn Leu

1 5

<210> 117
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 117

Leu Ile Ser Gly Asn Leu
1 5

<210> 118
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 118
gga caa tta gca cat
15
Gly Gln Leu Ala His
1 5

<210> 119
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 119

Gly Gln Leu Ala His
1 5

<210> 120
<211> 267
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(267)

<400> 120
gag ctc tca gaa gat tct agt aat gtc gtc cat tta atc aaa aac gcc
48
Glu Leu Ser Glu Asp Ser Ser Asn Val Val His Leu Ile Lys Asn Ala

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1               5                  10                  15

tat aac aaa cta agt tcg aga gtt ttc tta gac cac aat gca ctg cca
96
Tyr Asn Lys Leu Ser Ser Arg Val Phe Leu Asp His Asn Ala Leu Pro

            20                  25                  30

gat acg ttg aag gta aca tac gac agc ttt tgc tcc aat ggg gtg acc      1
44
Asp Thr Leu Lys Val Thr Tyr Asp Ser Phe Cys Ser Asn Gly Val Thr

        35                  40                  45

cat aga aac cag cca aga ggc gat tgt gac gga gta caa ata aat gta      1
92
His Arg Asn Gln Pro Arg Gly Asp Cys Asp Gly Val Gln Ile Asn Val

    50                  55                  60

cca ata aca ttc cag gtt aag gtg aca gct act gag tgt ata caa gaa      2
40
Pro Ile Thr Phe Gln Val Lys Val Thr Ala Thr Glu Cys Ile Gln Glu

65                  70                  75                  80

caa agt ttt gta att aga gcg ctt ggt                                 2
67
Gln Ser Phe Val Ile Arg Ala Leu Gly

                85
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<210> 121
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 121

Glu Leu Ser Glu Asp Ser Ser Asn Val Val His Leu Ile Lys Asn Ala
1 5 10 15

Tyr Asn Lys Leu Ser Ser Arg Val Phe Leu Asp His Asn Ala Leu Pro
20 25 30

Asp Thr Leu Lys Val Thr Tyr Asp Ser Phe Cys Ser Asn Gly Val Thr
35 40 45

His Arg Asn Gln Pro Arg Gly Asp Cys Asp Gly Val Gln Ile Asn Val
50 55 60

Pro Ile Thr Phe Gln Val Lys Val Thr Ala Thr Glu Cys Ile Gln Glu
65 70 75 80

Gln Ser Phe Val Ile Arg Ala Leu Gly
85

<210> 122
<211> 168
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(168)

<400> 122
ggt ttc acc gac att gta aca gta cag gta tta cca caa tgc gaa tgc
48
Gly Phe Thr Asp Ile Val Thr Val Gln Val Leu Pro Gln Cys Glu Cys
1 5 10 15

aga tgt aga gat caa agt aga gac aga agt tta tgc cat gga aag ggc

96
Arg Cys Arg Asp Gln Ser Arg Asp Arg Ser Leu Cys His Gly Lys Gly
20 25 30

ttt tta gaa tgt gga atc tgt aga tgc gat acg gga tat ata gga aaa 1
44
Phe Leu Glu Cys Gly Ile Cys Arg Cys Asp Thr Gly Tyr Ile Gly Lys
35 40 45

aat tgt gag tgt cag act caa ggg 1
68
Asn Cys Glu Cys Gln Thr Gln Gly
50 55

<210> 123
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 123

Gly Phe Thr Asp Ile Val Thr Val Gln Val Leu Pro Gln Cys Glu Cys
1 5 10 15

Arg Cys Arg Asp Gln Ser Arg Asp Arg Ser Leu Cys His Gly Lys Gly
20 25 30

Phe Leu Glu Cys Gly Ile Cys Arg Cys Asp Thr Gly Tyr Ile Gly Lys
35 40 45

Asn Cys Glu Cys Gln Thr Gln Gly
50 55

<210> 124

<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(45)

<400> 124
tgt aat gca ttt aag ata tta gta gta ata aca gat gga gaa aaa
45
Cys Asn Ala Phe Lys Ile Leu Val Val Ile Thr Asp Gly Glu Lys

1 5 10 15

<210> 125
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 125

Cys Asn Ala Phe Lys Ile Leu Val Val Ile Thr Asp Gly Glu Lys
1 5 10 15

<210> 126
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(60)

<400> 126
aca gga ata aga aag gta gta aga gaa tta ttt aat ata aca aac gga
48
Thr Gly Ile Arg Lys Val Val Arg Glu Leu Phe Asn Ile Thr Asn Gly
1 5 10 15

gca aga aaa aat
60
Ala Arg Lys Asn
20

<210> 127
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 127

Thr Gly Ile Arg Lys Val Val Arg Glu Leu Phe Asn Ile Thr Asn Gly
1 5 10 15

Ala Arg Lys Asn
20

<210> 128
<211> 75
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(75)

<400> 128

gat tta agt tat agt ctc gac gat ctg aga aat gta aag aaa ctt gga
48
Asp Leu Ser Tyr Ser Leu Asp Asp Leu Arg Asn Val Lys Lys Leu Gly

1 5 10 15

gga gac cta tta aga gca ttg aac gaa
75
Gly Asp Leu Leu Arg Ala Leu Asn Glu

20 25

<210> 129
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 129

Asp Leu Ser Tyr Ser Leu Asp Asp Leu Arg Asn Val Lys Lys Leu Gly
1 5 10 15

Gly Asp Leu Leu Arg Ala Leu Asn Glu
20 25

<210> 130
<211> 189
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(189)

<400> 130
gac tat ccc gta gac ata tac tac ctt atg gat tta agt tac tcc atg

48
Asp Tyr Pro Val Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met
1 5 10 15

aag gac gat ctc tgg tca att cag aac ttg gga aca aaa cta gca aca
96
Lys Asp Asp Leu Trp Ser Ile Gln Asn Leu Gly Thr Lys Leu Ala Thr
20 25 30

caa atg aga aag ctg aca tcg aat tta aga ata gga ttt gga gca ttc 1
44
Gln Met Arg Lys Leu Thr Ser Asn Leu Arg Ile Gly Phe Gly Ala Phe
35 40 45

gta gat aaa cca gta agc cct tat atg tat atc tct cca ccg gaa 1
89
Val Asp Lys Pro Val Ser Pro Tyr Met Tyr Ile Ser Pro Pro Glu
50 55 60

<210> 131
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 131

Asp Tyr Pro Val Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met
1 5 10 15

Lys Asp Asp Leu Trp Ser Ile Gln Asn Leu Gly Thr Lys Leu Ala Thr
20 25 30

Gln Met Arg Lys Leu Thr Ser Asn Leu Arg Ile Gly Phe Gly Ala Phe
35 40 45

Val Asp Lys Pro Val Ser Pro Tyr Met Tyr Ile Ser Pro Pro Glu
50 55 60

<210> 132
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(45)

<400> 132
gac gca cca gaa gga gga ttt gat gca ata atg caa gca aca gta
45
Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr Val

1 5 10 15

<210> 133
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 133

Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr Val
1 5 10 15

<210> 134
<211> 363
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(363)

<400> 134
ttt tcc ata cag gtt cga cag gta gag gat tat cca gta gac atc tat
48
Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr Pro Val Asp Ile Tyr

1 5 10 15

tac tta atg gac tta agc tat agt atg aag gac gat ctc tgg agt ata
96
Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu Trp Ser Ile

20 25 30

caa aat tta ggt acc aag ttg gcc acc caa atg cgt aaa tta act tca 1
44
Gln Asn Leu Gly Thr Lys Leu Ala Thr Gln Met Arg Lys Leu Thr Ser

35 40 45

aat tta cgg ata gga ttc ggg gca ttt gtg gat aaa ccc gta tcg ccg 1
92
Asn Leu Arg Ile Gly Phe Gly Ala Phe Val Asp Lys Pro Val Ser Pro

50 55 60

tac atg tat att agt cca cct gag gcg ctt gaa aac ccc tgc tac gac 2
40
Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp

65 70 75 80

atg aaa aca acg tgt ctg cct atg ttt ggc tac aag cat gtc cta aca 2
88
Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr Lys His Val Leu Thr

85 90 95

tta acg gat caa gtc act agg ttc aac gag gaa gtt aaa aag cag agt 3
36
Leu Thr Asp Gln Val Thr Arg Phe Asn Glu Glu Val Lys Lys Gln Ser
100 105 110

gtg tct cgc aat aga gat gct ccg gaa 3
63
Val Ser Arg Asn Arg Asp Ala Pro Glu
115 120

<210> 135
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 135

Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr Pro Val Asp Ile Tyr
1 5 10 15

Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu Trp Ser Ile
20 25 30

Gln Asn Leu Gly Thr Lys Leu Ala Thr Gln Met Arg Lys Leu Thr Ser
35 40 45

Asn Leu Arg Ile Gly Phe Gly Ala Phe Val Asp Lys Pro Val Ser Pro
50 55 60

Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp
65 70 75 80

Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr Lys His Val Leu Thr

85 90 95

Leu Thr Asp Gln Val Thr Arg Phe Asn Glu Glu Val Lys Lys Gln Ser
100 105 110

Val Ser Arg Asn Arg Asp Ala Pro Glu
115 120

<210> 136
<211> 87
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(87)

<400> 136
gga gta agt agt tgc cag caa tgt tta gca gta agt cca atg tgt gca
48
Gly Val Ser Ser Cys Gln Gln Cys Leu Ala Val Ser Pro Met Cys Ala

1 5 10 15

tgg tgc agt gat gaa gca tta cca tta gga agt cca aga
87
Trp Cys Ser Asp Glu Ala Leu Pro Leu Gly Ser Pro Arg

20 25

<210> 137
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 137

Gly Val Ser Ser Cys Gln Gln Cys Leu Ala Val Ser Pro Met Cys Ala
1 5 10 15

Trp Cys Ser Asp Glu Ala Leu Pro Leu Gly Ser Pro Arg
20 25

<210> 138
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(63)

<400> 138
gta tta gaa gac aga cca tta agt gat aaa gga agt gga gat agt agt
48
Val Leu Glu Asp Arg Pro Leu Ser Asp Lys Gly Ser Gly Asp Ser Ser
1 5 10 15

caa gta aca cag gta
63
Gln Val Thr Gln Val
20

<210> 139
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 139

Val Leu Glu Asp Arg Pro Leu Ser Asp Lys Gly Ser Gly Asp Ser Ser
1 5 10 15

Gln Val Thr Gln Val
20

<210> 140
<211> 153
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(153)

<400> 140
aac atc aat tta ata ttt gca gtc aca gaa aac gta gtg aat ctt tac
48
Asn Ile Asn Leu Ile Phe Ala Val Thr Glu Asn Val Val Asn Leu Tyr

1 5 10 15

cag aac tat agt gag cta ata cca gga aca aca gta gga gtt ctc agt
96
Gln Asn Tyr Ser Glu Leu Ile Pro Gly Thr Thr Val Gly Val Leu Ser

20 25 30

atg gat agt agt aat gta ctg caa ttg att gta gac gca tat gga aaa 1
44
Met Asp Ser Ser Asn Val Leu Gln Leu Ile Val Asp Ala Tyr Gly Lys

35 40 45

ata aga agt 1
53
Ile Arg Ser

50

<210> 141
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 141

Asn Ile Asn Leu Ile Phe Ala Val Thr Glu Asn Val Val Asn Leu Tyr
1 5 10 15

Gln Asn Tyr Ser Glu Leu Ile Pro Gly Thr Thr Val Gly Val Leu Ser
20 25 30

Met Asp Ser Ser Asn Val Leu Gln Leu Ile Val Asp Ala Tyr Gly Lys
35 40 45

Ile Arg Ser
50

<210> 142
<211> 123
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(123)

<400> 142
ata gga ttt gga gca ttc gta gac aaa cca gta agt cct tac atg tat
48
Ile Gly Phe Gly Ala Phe Val Asp Lys Pro Val Ser Pro Tyr Met Tyr

1 5 10 15

ata agt cca ccc gaa gca tta gag aat cca tgc tac gat atg aag aca
96
Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp Met Lys Thr

20 25 30

aca tgt tta ccg atg ttt gga tat aaa 1
23
Thr Cys Leu Pro Met Phe Gly Tyr Lys

35 40

<210> 143
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 143

Ile Gly Phe Gly Ala Phe Val Asp Lys Pro Val Ser Pro Tyr Met Tyr
1 5 10 15

Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp Met Lys Thr
20 25 30

Thr Cys Leu Pro Met Phe Gly Tyr Lys
35 40

<210> 144
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(36)

<400> 144
agt gta agt aga aat aga gat gca cca gaa gga gga
36
Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly

1 5 10

<210> 145
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 145

Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly
1 5 10

<210> 146
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(33)

<400> 146
agt gat agt aga aat aga gat gca cca gaa gga
33
Ser Asp Ser Arg Asn Arg Asp Ala Pro Glu Gly

1 5 10

<210> 147
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 147

Ser Asp Ser Arg Asn Arg Asp Ala Pro Glu Gly
1 5 10

<210> 148
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 148
aga aat aga gat gca
15
Arg Asn Arg Asp Ala

1 5

<210> 149
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 149

Arg Asn Arg Asp Ala
1 5

<210> 150
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(45)

<400> 150
gat gca cca gaa gga gga ttt gac gca ata atg caa gca aca gta
45
Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr Val

1 5 10 15

<210> 151
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 151

Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr Val
1 5 10 15

<210> 152
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(45)

<400> 152
gat gca cca gaa gga gga ttt gac gca ata atg caa gca aca gta
45
Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr Val

1 5 10 15

<210> 153
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 153

Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr Val
1 5 10 15

<210> 154
<211> 258
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(258)

<400> 154
gat gcg cca gaa ggt ggg ttt gac gcg atc atg caa gct aca gtg tgc
48
Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr Val Cys

1 5 10 15

```
gac gaa aaa ata ggc tgg aga aac gat gca agt cac ctc ctt gtc ttc
96
Asp Glu Lys Ile Gly Trp Arg Asn Asp Ala Ser His Leu Leu Val Phe

            20                  25                  30


aca acc gat gca aaa aca cat att gcc ctg gac ggg aga ttg gcc ggc      1
44
Thr Thr Asp Ala Lys Thr His Ile Ala Leu Asp Gly Arg Leu Ala Gly

        35                  40                  45


ata gtt caa cca aat gat ggt cag tgt cat gta gga tca gac aat cac      1
92
Ile Val Gln Pro Asn Asp Gly Gln Cys His Val Gly Ser Asp Asn His

    50                  55                  60


tat tct gct agc act acg atg gat tac cca tcc tta gga tta atg aca      2
40
Tyr Ser Ala Ser Thr Thr Met Asp Tyr Pro Ser Leu Gly Leu Met Thr

65                  70                  75                  80


gag aag cta tcg cag aag                                             2
58
Glu Lys Leu Ser Gln Lys

                85
```

<210> 155
<211> 86
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 155

Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr Val Cys

1 5 10 15

Asp Glu Lys Ile Gly Trp Arg Asn Asp Ala Ser His Leu Leu Val Phe
20 25 30

Thr Thr Asp Ala Lys Thr His Ile Ala Leu Asp Gly Arg Leu Ala Gly
35 40 45

Ile Val Gln Pro Asn Asp Gly Gln Cys His Val Gly Ser Asp Asn His
50 55 60

Tyr Ser Ala Ser Thr Thr Met Asp Tyr Pro Ser Leu Gly Leu Met Thr
65 70 75 80

Glu Lys Leu Ser Gln Lys
85

<210> 156
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(42)

<400> 156
atg gac tta agt tat agt atg aaa gat gat tta tgg agt ata
42
Met Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu Trp Ser Ile

1 5 10

<210> 157
<211> 14
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 157

Met Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu Trp Ser Ile
1 5 10

<210> 158
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(18)

<400> 158
gga cca aat ata tgt aca
18
Gly Pro Asn Ile Cys Thr

1 5

<210> 159
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 159

Gly Pro Asn Ile Cys Thr
1 5

<210> 160

<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(39)

<400> 160
gga cca aat ata tgt aca aca aga gga gta agt agt tgc
39
Gly Pro Asn Ile Cys Thr Thr Arg Gly Val Ser Ser Cys

1 5 10

<210> 161
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 161

Gly Pro Asn Ile Cys Thr Thr Arg Gly Val Ser Ser Cys
1 5 10

<210> 162
<211> 207
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(207)

<400> 162
aaa gat tct tta ata gta cag gta aca ttt gac tgt gac tgt gca tgt
48
Lys Asp Ser Leu Ile Val Gln Val Thr Phe Asp Cys Asp Cys Ala Cys

1 5 10 15

cag gca caa gca gaa ccc aac tcg cat aga tgc aac aat gga aat ggc
96
Gln Ala Gln Ala Glu Pro Asn Ser His Arg Cys Asn Asn Gly Asn Gly

20 25 30

aca ttc gaa tgc gga gta tgc aga tgc gga ccg ggt tgg tta ggg agt 1
44
Thr Phe Glu Cys Gly Val Cys Arg Cys Gly Pro Gly Trp Leu Gly Ser

35 40 45

cag tgt gaa tgc tca gag gaa gat tat aga cct tcc caa caa gat gag 1
92
Gln Cys Glu Cys Ser Glu Glu Asp Tyr Arg Pro Ser Gln Gln Asp Glu

50 55 60

tgt agc cca aga gag 2
07
Cys Ser Pro Arg Glu

65

<210> 163
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 163

Lys Asp Ser Leu Ile Val Gln Val Thr Phe Asp Cys Asp Cys Ala Cys

1 5 10 15

Gln Ala Gln Ala Glu Pro Asn Ser His Arg Cys Asn Asn Gly Asn Gly
20 25 30

Thr Phe Glu Cys Gly Val Cys Arg Cys Gly Pro Gly Trp Leu Gly Ser
35 40 45

Gln Cys Glu Cys Ser Glu Glu Asp Tyr Arg Pro Ser Gln Gln Asp Glu
50 55 60

Cys Ser Pro Arg Glu
65

<210> 164
<211> 267
<212> DNA
<213> Artificial Sequence

<220>
<223> Integrin

<220>
<221> CDS
<222> (1)..(267)

<400> 164
cct act tgc ccg gat gct tgc act ttt aaa aaa gaa tgt gta gaa tgc
48
Pro Thr Cys Pro Asp Ala Cys Thr Phe Lys Lys Glu Cys Val Glu Cys

1 5 10 15

aaa aaa ttt gac cgt gag ccc tat atg aca gaa aat act tgc aac agg
96
Lys Lys Phe Asp Arg Glu Pro Tyr Met Thr Glu Asn Thr Cys Asn Arg

20 25 30

tat tgt aga gat gaa ata gag agc gtt aaa gag tta aaa gat aca ggt 1

44
Tyr Cys Arg Asp Glu Ile Glu Ser Val Lys Glu Leu Lys Asp Thr Gly
35 40 45

aaa gat gca gtt aac tgt aca tat aaa aat gag gac gat tgt gtg gta 1
92
Lys Asp Ala Val Asn Cys Thr Tyr Lys Asn Glu Asp Asp Cys Val Val
50 55 60

cga ttc caa tat tat gaa gac agt tca gga aaa tct ata ttg tat gta 2
40
Arg Phe Gln Tyr Tyr Glu Asp Ser Ser Gly Lys Ser Ile Leu Tyr Val
65 70 75 80

gtg gaa gag cca gaa tgt cca aaa ggg 2
67
Val Glu Glu Pro Glu Cys Pro Lys Gly
85

<210> 165
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> Integrin

<400> 165

Pro Thr Cys Pro Asp Ala Cys Thr Phe Lys Lys Glu Cys Val Glu Cys
1 5 10 15

Lys Lys Phe Asp Arg Glu Pro Tyr Met Thr Glu Asn Thr Cys Asn Arg
20 25 30

Tyr Cys Arg Asp Glu Ile Glu Ser Val Lys Glu Leu Lys Asp Thr Gly
35 40 45

Lys Asp Ala Val Asn Cys Thr Tyr Lys Asn Glu Asp Asp Cys Val Val
50 55 60

Arg Phe Gln Tyr Tyr Glu Asp Ser Ser Gly Lys Ser Ile Leu Tyr Val
65 70 75 80

Val Glu Glu Pro Glu Cys Pro Lys Gly
85

<210> 166
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 166
aaa gat gac tta tgg
15
Lys Asp Asp Leu Trp

1 5

<210> 167
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 167

Lys Asp Asp Leu Trp
1 5

<210> 168
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(39)

<400> 168
agt gta agt aga aat aga gat gca cca gaa gga gga ttt
39
Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly Phe

1 5 10

<210> 169
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 169

Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly Phe
1 5 10

<210> 170
<211> 270
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>

<221> CDS
<222> (1)..(270)

<400> 170
cac gtg ggg agt gac aac cat tat tcc gca tct aca act atg gac tat
48
His Val Gly Ser Asp Asn His Tyr Ser Ala Ser Thr Thr Met Asp Tyr

1 5 10 15

cca agt ctg ggc tta atg aca gag aag tta agc caa aag aat tta aac
96
Pro Ser Leu Gly Leu Met Thr Glu Lys Leu Ser Gln Lys Asn Leu Asn

20 25 30

ttg atc ttt gca gtt aca gag aac gta gtc aat ctt tac cag aat tac 1
44
Leu Ile Phe Ala Val Thr Glu Asn Val Val Asn Leu Tyr Gln Asn Tyr

35 40 45

agt gag cta att cca gga acg acc gta gga gta ttg tcg atg gat agt 1
92
Ser Glu Leu Ile Pro Gly Thr Thr Val Gly Val Leu Ser Met Asp Ser

50 55 60

tca aat gtc ctc caa cta ata gtg gat gca tat ggt aaa ata aga agt 2
40
Ser Asn Val Leu Gln Leu Ile Val Asp Ala Tyr Gly Lys Ile Arg Ser

65 70 75 80

aaa gtt gaa tta gaa gta aga gat ctc cca 2
70
Lys Val Glu Leu Glu Val Arg Asp Leu Pro

85 90

<210> 171

<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 171

His Val Gly Ser Asp Asn His Tyr Ser Ala Ser Thr Thr Met Asp Tyr
1 5 10 15

Pro Ser Leu Gly Leu Met Thr Glu Lys Leu Ser Gln Lys Asn Leu Asn
20 25 30

Leu Ile Phe Ala Val Thr Glu Asn Val Val Asn Leu Tyr Gln Asn Tyr
35 40 45

Ser Glu Leu Ile Pro Gly Thr Thr Val Gly Val Leu Ser Met Asp Ser
50 55 60

Ser Asn Val Leu Gln Leu Ile Val Asp Ala Tyr Gly Lys Ile Arg Ser
65 70 75 80

Lys Val Glu Leu Glu Val Arg Asp Leu Pro
85 90

<210> 172
<211> 417
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(417)

<400> 172
gac gat agt aaa aat ttc agt att caa gta cga caa gta gaa gac tat

48
Asp Asp Ser Lys Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr
1 5 10 15

ccc gtt gac atc tac tat cta atg gat tta agt tac agt atg aaa gat
96
Pro Val Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp
20 25 30

gat tta tgg agt ata cag aat ttg ggg acc aag ctt gca acc caa atg 1
44
Asp Leu Trp Ser Ile Gln Asn Leu Gly Thr Lys Leu Ala Thr Gln Met
35 40 45

aga aag ctg aca tcg aac tta agg att gga ttt gga gca ttc gtt gat 1
92
Arg Lys Leu Thr Ser Asn Leu Arg Ile Gly Phe Gly Ala Phe Val Asp
50 55 60

aag cct gtg tca ccg tat atg tac atc tct ccc cca gag gct tta gaa 2
40
Lys Pro Val Ser Pro Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu
65 70 75 80

aat ccg tgt tac gac atg aaa acg aca tgt tta cct atg ttt ggt tat 2
88
Asn Pro Cys Tyr Asp Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr
85 90 95

aaa cat gta tta acg ctc act gac cag gta aca cgt ttt aac gaa gag 3
36
Lys His Val Leu Thr Leu Thr Asp Gln Val Thr Arg Phe Asn Glu Glu
100 105 110

gtc aag aaa cag agc gtg tcc cgg aac cgc gat gcg cca gag ggc gga 384
Val Lys Lys Gln Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly
115 120 125

ttc gac gcc ata atg caa gca act gtc tgc gat 417
Phe Asp Ala Ile Met Gln Ala Thr Val Cys Asp
130 135

<210> 173
<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 173

Asp Asp Ser Lys Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr
1 5 10 15

Pro Val Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp
20 25 30

Asp Leu Trp Ser Ile Gln Asn Leu Gly Thr Lys Leu Ala Thr Gln Met
35 40 45

Arg Lys Leu Thr Ser Asn Leu Arg Ile Gly Phe Gly Ala Phe Val Asp
50 55 60

Lys Pro Val Ser Pro Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu
65 70 75 80

Asn Pro Cys Tyr Asp Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr
85 90 95

Lys His Val Leu Thr Leu Thr Asp Gln Val Thr Arg Phe Asn Glu Glu
100 105 110

Val Lys Lys Gln Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly
115 120 125

Phe Asp Ala Ile Met Gln Ala Thr Val Cys Asp
130 135

<210> 174
<211> 117
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(117)

<400> 174
tat atg tac ata agt ccc ccg gaa gca tta gag aat cct tgt tac gat
48
Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp

1 5 10 15

atg aaa act acc tgc tta cca atg ttt gga tat aag cat gta tta aca
96
Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr Lys His Val Leu Thr

20 25 30

tta acg gac caa gta aca aga 1
17
Leu Thr Asp Gln Val Thr Arg

35

<210> 175
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 175

Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp
1 5 10 15

Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr Lys His Val Leu Thr
20 25 30

Leu Thr Asp Gln Val Thr Arg
35

<210> 176
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(18)

<400> 176
aga aat aga gat gca tat
18
Arg Asn Arg Asp Ala Tyr

1 5

<210> 177
<211> 6
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 177

Arg Asn Arg Asp Ala Tyr
1 5

<210> 178
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(48)

<400> 178
gac gca cca gaa gga gga ttt gat gca ata atg caa gca aca gta tat
48
Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr Val Tyr

1 5 10 15

<210> 179
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 179

Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr Val Tyr
1 5 10 15

<210> 180

<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(24)

<400> 180
tgc tat gat atg aaa aca aca tgt
24
Cys Tyr Asp Met Lys Thr Thr Cys

1 5

<210> 181
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 181

Cys Tyr Asp Met Lys Thr Thr Cys
1 5

<210> 182
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(60)

<400> 182
aat ttt agt ata cag gta aga caa gta gaa gac tat cca gta gat ata
48
Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr Pro Val Asp Ile

1 5 10 15

tat tac tta atg
60
Tyr Tyr Leu Met

20

<210> 183
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 183

Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr Pro Val Asp Ile
1 5 10 15

Tyr Tyr Leu Met
20

<210> 184
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 184

gat atg aaa aca aca
15
Asp Met Lys Thr Thr

1 5

<210> 185
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 185

Asp Met Lys Thr Thr
1 5

<210> 186
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 186
ata agt cca cca gca
15
Ile Ser Pro Pro Ala

1 5

<210> 187
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 187

Ile Ser Pro Pro Ala
1 5

<210> 188
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(36)

<400> 188
aaa caa agt gta agt aga aat aga gat gca cca gaa
36
Lys Gln Ser Val Ser Arg Asn Arg Asp Ala Pro Glu

1 5 10

<210> 189
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 189

Lys Gln Ser Val Ser Arg Asn Arg Asp Ala Pro Glu
1 5 10

<210> 190
<211> 837

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(837)

<400> 190
gat gac agt aaa aat ttt agt atc cag gta aga cag gta gaa gat tat
48
Asp Asp Ser Lys Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr

1 5 10 15

cca gtc gac ata tat tac ctc atg gac ctg agt tac agt atg aag gat
96
Pro Val Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp

20 25 30

gat ctc tgg tca att caa aat cta ggg act aag ctt gcg acg caa atg 1
44
Asp Leu Trp Ser Ile Gln Asn Leu Gly Thr Lys Leu Ala Thr Gln Met

35 40 45

aga aaa ttg aca agc aat tta cga att gga ttt gga gca ttc gtc gat 1
92
Arg Lys Leu Thr Ser Asn Leu Arg Ile Gly Phe Gly Ala Phe Val Asp

50 55 60

aag cct gtt agt cct tac atg tac atc tca ccc cct gaa gcc tta gag 2
40
Lys Pro Val Ser Pro Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu

65 70 75 80

aac ccc tgc tat gac atg aaa acc aca tgt tta ccg atg ttt ggt tat 2

88
Asn Pro Cys Tyr Asp Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr
85 90 95

aaa cat gtg ctc acg ctt acg gac caa gtg act cgg ttc aat gag gaa 3
36
Lys His Val Leu Thr Leu Thr Asp Gln Val Thr Arg Phe Asn Glu Glu
100 105 110

gta aaa aag cag tct gtc agt agg aac cgt gat gca ccg gaa gga gga 3
84
Val Lys Lys Gln Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly
115 120 125

ttt gac gcg ata atg caa gcc aca gta tgt gac gag aaa ata ggc tgg 4
32
Phe Asp Ala Ile Met Gln Ala Thr Val Cys Asp Glu Lys Ile Gly Trp
130 135 140

cgc aac gat gca tcc cat tta ctg gtg ttc acc act gat gcg aaa aca 4
80
Arg Asn Asp Ala Ser His Leu Leu Val Phe Thr Thr Asp Ala Lys Thr
145 150 155 160

cac atc gca ttg gat ggt aga ttg gct gga ata gta cag cca aat gat 5
28
His Ile Ala Leu Asp Gly Arg Leu Ala Gly Ile Val Gln Pro Asn Asp
165 170 175

ggc caa tgc cat gtc ggg agc gac aac cac tat tcg gca agt acc acg 5
76
Gly Gln Cys His Val Gly Ser Asp Asn His Tyr Ser Ala Ser Thr Thr
180 185 190

atg gac tac ccc agc tta ggt cta atg act gag aag tta tcg cag aag 624
Met Asp Tyr Pro Ser Leu Gly Leu Met Thr Glu Lys Leu Ser Gln Lys
195 200 205

aac ctt aac cta atc ttc gct gta aca gaa aat gta gtt aat tta tat 672
Asn Leu Asn Leu Ile Phe Ala Val Thr Glu Asn Val Val Asn Leu Tyr
210 215 220

caa aac tac tcg gaa ctg ata ccg gga aca aca gtt ggg gtc ttg tcc 720
Gln Asn Tyr Ser Glu Leu Ile Pro Gly Thr Thr Val Gly Val Leu Ser
225 230 235 240

atg gac tca agt aat gtt tta cag cta att gtg gac gct tat ggc aag 768
Met Asp Ser Ser Asn Val Leu Gln Leu Ile Val Asp Ala Tyr Gly Lys
245 250 255

att aga tcc aaa gtg gag tta gaa gtt aga gat ctt cca gag gag ctc 816
Ile Arg Ser Lys Val Glu Leu Glu Val Arg Asp Leu Pro Glu Glu Leu
260 265 270

tct ctg tct ttt aac gcc acc 837
Ser Leu Ser Phe Asn Ala Thr
275

<210> 191
<211> 279
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 191

Asp Asp Ser Lys Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr
1 5 10 15

Pro Val Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp
20 25 30

Asp Leu Trp Ser Ile Gln Asn Leu Gly Thr Lys Leu Ala Thr Gln Met
35 40 45

Arg Lys Leu Thr Ser Asn Leu Arg Ile Gly Phe Gly Ala Phe Val Asp
50 55 60

Lys Pro Val Ser Pro Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu
65 70 75 80

Asn Pro Cys Tyr Asp Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr
85 90 95

Lys His Val Leu Thr Leu Thr Asp Gln Val Thr Arg Phe Asn Glu Glu
100 105 110

Val Lys Lys Gln Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly
115 120 125

Phe Asp Ala Ile Met Gln Ala Thr Val Cys Asp Glu Lys Ile Gly Trp
130 135 140

Arg Asn Asp Ala Ser His Leu Leu Val Phe Thr Thr Asp Ala Lys Thr
145 150 155 160

His Ile Ala Leu Asp Gly Arg Leu Ala Gly Ile Val Gln Pro Asn Asp
165 170 175

Gly Gln Cys His Val Gly Ser Asp Asn His Tyr Ser Ala Ser Thr Thr
180 185 190

Met Asp Tyr Pro Ser Leu Gly Leu Met Thr Glu Lys Leu Ser Gln Lys
195 200 205

Asn Leu Asn Leu Ile Phe Ala Val Thr Glu Asn Val Val Asn Leu Tyr
210 215 220

Gln Asn Tyr Ser Glu Leu Ile Pro Gly Thr Thr Val Gly Val Leu Ser
225 230 235 240

Met Asp Ser Ser Asn Val Leu Gln Leu Ile Val Asp Ala Tyr Gly Lys
245 250 255

Ile Arg Ser Lys Val Glu Leu Glu Val Arg Asp Leu Pro Glu Glu Leu
260 265 270

Ser Leu Ser Phe Asn Ala Thr
275

<210> 192
<211> 621
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(621)

<400> 192
gat gat tct aag aat ttt tcc atc cag gtt cga cag gtc gaa gat tac
48
Asp Asp Ser Lys Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr

1 5 10 15

```
cca gta gac ata tat tac cta atg gat ctc agt tat agt atg aag gac
96
Pro Val Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp

            20                  25                  30

gat cta tgg agt atc caa aac ctg ggc acg aaa ctt gcc act caa atg      1
44
Asp Leu Trp Ser Ile Gln Asn Leu Gly Thr Lys Leu Ala Thr Gln Met

        35                  40                  45

cgg aaa tta aca tca aac ttg agg att ggc ttt ggg gca ttc gtg gat      1
92
Arg Lys Leu Thr Ser Asn Leu Arg Ile Gly Phe Gly Ala Phe Val Asp

    50                  55                  60

aaa ccc gta tcc cca tat atg tac atc tct cca ccg gag gca ctc gaa      2
40
Lys Pro Val Ser Pro Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu

65                  70                  75                  80

aac cct tgc tac gac atg aag acc aca tgc ctt cct atg ttt ggg tat      2
88
Asn Pro Cys Tyr Asp Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr

                85                  90                  95

aaa cac gtg ctt act tta acc gac cag gtt acg aga ttc aat gaa gag      3
36
Lys His Val Leu Thr Leu Thr Asp Gln Val Thr Arg Phe Asn Glu Glu

            100                 105                 110

gta aaa aag caa agt gta agc cgt aac aga gac gca ccg gag gga ggg      3
84
Val Lys Lys Gln Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly
```

115 120 125

ttc gac gca ata atg caa gct act gtc tgt gac gag aag att gga tgg 4
32
Phe Asp Ala Ile Met Gln Ala Thr Val Cys Asp Glu Lys Ile Gly Trp

130 135 140

aga aat gat gcg tcg cat ttg tta gtc ttt aca aca gat gcc aaa aca 4
80
Arg Asn Asp Ala Ser His Leu Leu Val Phe Thr Thr Asp Ala Lys Thr

145 150 155 160

cac att gcg ctg gac ggt cgc ctc gca ggc ata gtt cag cca aat gat 5
28
His Ile Ala Leu Asp Gly Arg Leu Ala Gly Ile Val Gln Pro Asn Asp

165 170 175

ggt cag tgt cat gtg ggt agt gat aat cat tat agc gct tca aca acc 5
76
Gly Gln Cys His Val Gly Ser Asp Asn His Tyr Ser Ala Ser Thr Thr

180 185 190

atg gac tac ccc agt cta gga ctg atg acg gaa aag ttg tcg caa 6
21
Met Asp Tyr Pro Ser Leu Gly Leu Met Thr Glu Lys Leu Ser Gln

195 200 205

<210> 193
<211> 207
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 193

```
Asp Asp Ser Lys Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr
1               5                  10                  15

Pro Val Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp
            20                  25                  30

Asp Leu Trp Ser Ile Gln Asn Leu Gly Thr Lys Leu Ala Thr Gln Met
        35                  40                  45

Arg Lys Leu Thr Ser Asn Leu Arg Ile Gly Phe Gly Ala Phe Val Asp
    50                  55                  60

Lys Pro Val Ser Pro Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu
65                  70                  75                  80

Asn Pro Cys Tyr Asp Met Lys Thr Thr Cys Leu Pro Met Phe Gly Tyr
                85                  90                  95

Lys His Val Leu Thr Leu Thr Asp Gln Val Thr Arg Phe Asn Glu Glu
            100                 105                 110

Val Lys Lys Gln Ser Val Ser Arg Asn Arg Asp Ala Pro Glu Gly Gly
        115                 120                 125

Phe Asp Ala Ile Met Gln Ala Thr Val Cys Asp Glu Lys Ile Gly Trp
    130                 135                 140

Arg Asn Asp Ala Ser His Leu Leu Val Phe Thr Thr Asp Ala Lys Thr
145                 150                 155                 160

His Ile Ala Leu Asp Gly Arg Leu Ala Gly Ile Val Gln Pro Asn Asp
                165                 170                 175

Gly Gln Cys His Val Gly Ser Asp Asn His Tyr Ser Ala Ser Thr Thr
            180                 185                 190
```

Met Asp Tyr Pro Ser Leu Gly Leu Met Thr Glu Lys Leu Ser Gln
195 200 205

<210> 194
<211> 1053
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(1053)

<400> 194
aag caa ctg aat ttc acg gcc tct gga gag gca gag gcc cgc aga tgc
48
Lys Gln Leu Asn Phe Thr Ala Ser Gly Glu Ala Glu Ala Arg Arg Cys

1 5 10 15

gca cgg agg gaa gag ctc cta gct agg gga tgc ccc ctg gag gag cta
96
Ala Arg Arg Glu Glu Leu Leu Ala Arg Gly Cys Pro Leu Glu Glu Leu

20 25 30

gaa gag cca cgt gga cag caa gag gta cta cag gat cag ccg ctg tcg 1
44
Glu Glu Pro Arg Gly Gln Gln Glu Val Leu Gln Asp Gln Pro Leu Ser

35 40 45

caa gga gcc cga ggt gag ggt gcg acc cag cta gca cca caa cgc gta 1
92
Gln Gly Ala Arg Gly Glu Gly Ala Thr Gln Leu Ala Pro Gln Arg Val

50 55 60

cgc gtt aca tta cgg cca ggc gaa cca caa caa tta cag gta aga ttt 2

40
Arg Val Thr Leu Arg Pro Gly Glu Pro Gln Gln Leu Gln Val Arg Phe
65 70 75 80

ttg cgt gct gaa ggg tat ccg gtg gat tta tac tat ctc atg gat ctt 2
88
Leu Arg Ala Glu Gly Tyr Pro Val Asp Leu Tyr Tyr Leu Met Asp Leu
85 90 95

agt tac tcc atg aag gat gat cta gaa agg gta cgc caa ctg ggt cat 3
36
Ser Tyr Ser Met Lys Asp Asp Leu Glu Arg Val Arg Gln Leu Gly His
100 105 110

gcc tta ttg gta aga tta caa gaa gta aca cat agc gta cgt atc ggg 3
84
Ala Leu Leu Val Arg Leu Gln Glu Val Thr His Ser Val Arg Ile Gly
115 120 125

ttt gga tct ttc gta gac aaa acc gtt tta cct ttc gtg agt acc gtg 4
32
Phe Gly Ser Phe Val Asp Lys Thr Val Leu Pro Phe Val Ser Thr Val
130 135 140

cct agc aaa ttg cgt cac cct tgt cca act agg ctt gag cga tgc cag 4
80
Pro Ser Lys Leu Arg His Pro Cys Pro Thr Arg Leu Glu Arg Cys Gln
145 150 155 160

agt ccg ttc tca ttc cac cat gtt ttg agt tta act gga gat gcc cag 5
28
Ser Pro Phe Ser Phe His His Val Leu Ser Leu Thr Gly Asp Ala Gln
165 170 175

```
gcc ttc gag cga gaa gtc ggc cgg caa tcc gtt tct ggg aat tta gac      5
76
Ala Phe Glu Arg Glu Val Gly Arg Gln Ser Val Ser Gly Asn Leu Asp
            180                 185                 190

agt ccc gag gga ggg ttt gac gcg ata ctt caa gca gcg ctc tgt cag      6
24
Ser Pro Glu Gly Gly Phe Asp Ala Ile Leu Gln Ala Ala Leu Cys Gln
        195                 200                 205

gaa cag att ggc tgg cga aac gtc agc aga cta tta gtc ttt acg agt      6
72
Glu Gln Ile Gly Trp Arg Asn Val Ser Arg Leu Leu Val Phe Thr Ser
    210                 215                 220

gac gat act ttt cac aca gca ggg gac gga aag ctt ggc ggt att ttt      7
20
Asp Asp Thr Phe His Thr Ala Gly Asp Gly Lys Leu Gly Gly Ile Phe
225                 230                 235                 240

atg ccc agc gac ggt cat tgt cac ctc gat tca aat gga ttg tac agt      7
68
Met Pro Ser Asp Gly His Cys His Leu Asp Ser Asn Gly Leu Tyr Ser
                245                 250                 255

cgg tcc aca gaa ttc gat tat cct tcg gtg ggc cag gtg gcg cag gca      8
16
Arg Ser Thr Glu Phe Asp Tyr Pro Ser Val Gly Gln Val Ala Gln Ala
            260                 265                 270

ctg agt gct gca aac atc cag cca ata ttt gct gtt aca tcg gcg gcg      8
64
Leu Ser Ala Ala Asn Ile Gln Pro Ile Phe Ala Val Thr Ser Ala Ala
        275                 280                 285
```

ttg ccg gtt tac caa gaa ctc tca aaa tta ata ccc aaa tcc gct gtc 9
12
Leu Pro Val Tyr Gln Glu Leu Ser Lys Leu Ile Pro Lys Ser Ala Val

290 295 300

ggc gaa tta tct gag gac tcc tca aac gtg gtc caa ctc atc atg gac 9
60
Gly Glu Leu Ser Glu Asp Ser Ser Asn Val Val Gln Leu Ile Met Asp

305 310 315 320

gct tat aat tcg ctt agt agc acg gta aca ctg gaa cac tca tcg ctt 10
08
Ala Tyr Asn Ser Leu Ser Ser Thr Val Thr Leu Glu His Ser Ser Leu

325 330 335

ccg ccc ggt gtc cat att tct tat gag agt caa tgt gaa ggg cct 10
53
Pro Pro Gly Val His Ile Ser Tyr Glu Ser Gln Cys Glu Gly Pro

340 345 350

<210> 195
<211> 351
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 195

Lys Gln Leu Asn Phe Thr Ala Ser Gly Glu Ala Glu Ala Arg Arg Cys
1 5 10 15

Ala Arg Arg Glu Glu Leu Leu Ala Arg Gly Cys Pro Leu Glu Glu Leu
20 25 30

```
Glu Glu Pro Arg Gly Gln Gln Glu Val Leu Gln Asp Gln Pro Leu Ser
        35                  40                  45

Gln Gly Ala Arg Gly Glu Gly Ala Thr Gln Leu Ala Pro Gln Arg Val
    50                  55                  60

Arg Val Thr Leu Arg Pro Gly Glu Pro Gln Gln Leu Gln Val Arg Phe
65                  70                  75                  80

Leu Arg Ala Glu Gly Tyr Pro Val Asp Leu Tyr Tyr Leu Met Asp Leu
                85                  90                  95

Ser Tyr Ser Met Lys Asp Asp Leu Glu Arg Val Arg Gln Leu Gly His
            100                 105                 110

Ala Leu Leu Val Arg Leu Gln Glu Val Thr His Ser Val Arg Ile Gly
        115                 120                 125

Phe Gly Ser Phe Val Asp Lys Thr Val Leu Pro Phe Val Ser Thr Val
    130                 135                 140

Pro Ser Lys Leu Arg His Pro Cys Pro Thr Arg Leu Glu Arg Cys Gln
145                 150                 155                 160

Ser Pro Phe Ser Phe His His Val Leu Ser Leu Thr Gly Asp Ala Gln
                165                 170                 175

Ala Phe Glu Arg Glu Val Gly Arg Gln Ser Val Ser Gly Asn Leu Asp
            180                 185                 190

Ser Pro Glu Gly Gly Phe Asp Ala Ile Leu Gln Ala Ala Leu Cys Gln
        195                 200                 205

Glu Gln Ile Gly Trp Arg Asn Val Ser Arg Leu Leu Val Phe Thr Ser
    210                 215                 220
```

Asp Asp Thr Phe His Thr Ala Gly Asp Gly Lys Leu Gly Gly Ile Phe
225 230 235 240

Met Pro Ser Asp Gly His Cys His Leu Asp Ser Asn Gly Leu Tyr Ser
245 250 255

Arg Ser Thr Glu Phe Asp Tyr Pro Ser Val Gly Gln Val Ala Gln Ala
260 265 270

Leu Ser Ala Ala Asn Ile Gln Pro Ile Phe Ala Val Thr Ser Ala Ala
275 280 285

Leu Pro Val Tyr Gln Glu Leu Ser Lys Leu Ile Pro Lys Ser Ala Val
290 295 300

Gly Glu Leu Ser Glu Asp Ser Ser Asn Val Val Gln Leu Ile Met Asp
305 310 315 320

Ala Tyr Asn Ser Leu Ser Ser Thr Val Thr Leu Glu His Ser Ser Leu
325 330 335

Pro Pro Gly Val His Ile Ser Tyr Glu Ser Gln Cys Glu Gly Pro
340 345 350

<210> 196
<211> 273
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(273)

<400> 196
agt ttt gtt gat aaa aca gtc ctg ccg ttc gta agt acc gta cca agt
48

Ser Phe Val Asp Lys Thr Val Leu Pro Phe Val Ser Thr Val Pro Ser

1 5 10 15

aag tta cgc cat cca tgt cca acg agg ttg gag aga tgc cag tct cct 96
Lys Leu Arg His Pro Cys Pro Thr Arg Leu Glu Arg Cys Gln Ser Pro

20 25 30

ttt tcc ttc cac cat gtc tta agc cta act ggt gac gct caa gcc ttt 144
Phe Ser Phe His His Val Leu Ser Leu Thr Gly Asp Ala Gln Ala Phe

35 40 45

gaa cgg gaa gta gga aga caa tcg gtg agt ggg aac ctt gat tca ccc 192
Glu Arg Glu Val Gly Arg Gln Ser Val Ser Gly Asn Leu Asp Ser Pro

50 55 60

gaa gga ggc ttc gac gca ata tta cag gcg gca ctc tgt cag gag caa 240
Glu Gly Gly Phe Asp Ala Ile Leu Gln Ala Ala Leu Cys Gln Glu Gln

65 70 75 80

ata gga tgg cga aat gtt agt cgt tta tta gtg 273
Ile Gly Trp Arg Asn Val Ser Arg Leu Leu Val

85 90

<210> 197
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 197

Ser Phe Val Asp Lys Thr Val Leu Pro Phe Val Ser Thr Val Pro Ser
1 5 10 15

Lys Leu Arg His Pro Cys Pro Thr Arg Leu Glu Arg Cys Gln Ser Pro
20 25 30

Phe Ser Phe His His Val Leu Ser Leu Thr Gly Asp Ala Gln Ala Phe
35 40 45

Glu Arg Glu Val Gly Arg Gln Ser Val Ser Gly Asn Leu Asp Ser Pro
50 55 60

Glu Gly Gly Phe Asp Ala Ile Leu Gln Ala Ala Leu Cys Gln Glu Gln
65 70 75 80

Ile Gly Trp Arg Asn Val Ser Arg Leu Leu Val
85 90

<210> 198
<211> 312
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(312)

<400> 198
aaa caa ctc aat ttc aca gct agt ggc gaa gca gag gct agg aga tgc
48
Lys Gln Leu Asn Phe Thr Ala Ser Gly Glu Ala Glu Ala Arg Arg Cys

1 5 10 15

gcc agg cga gaa gaa tta ttg gca cgc ggg tgt ccc ctg gag gag ctt
96
Ala Arg Arg Glu Glu Leu Leu Ala Arg Gly Cys Pro Leu Glu Glu Leu

20 25 30

gaa gag cca cgg ggt cag cag gaa gtt tta caa gat caa cca tta agt 1
44
Glu Glu Pro Arg Gly Gln Gln Glu Val Leu Gln Asp Gln Pro Leu Ser

35 40 45

cag gga gca cgc ggc gaa ggg gcg aca caa tta gcg cca cag cgt gtc 1
92
Gln Gly Ala Arg Gly Glu Gly Ala Thr Gln Leu Ala Pro Gln Arg Val

50 55 60

aga gtg aca ttg cga cca gga gag cct caa cag tta caa gta cgt ttt 2
40
Arg Val Thr Leu Arg Pro Gly Glu Pro Gln Gln Leu Gln Val Arg Phe

65 70 75 80

ctt cgg gcc gag ggt tac ccg gta gat ctg tac tac cta atg gac ctc 2
88
Leu Arg Ala Glu Gly Tyr Pro Val Asp Leu Tyr Tyr Leu Met Asp Leu

85 90 95

agt tat agt atg aag gac gat cta 3
12
Ser Tyr Ser Met Lys Asp Asp Leu

100

<210> 199
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 199

Lys Gln Leu Asn Phe Thr Ala Ser Gly Glu Ala Glu Ala Arg Arg Cys
1 5 10 15

Ala Arg Arg Glu Glu Leu Leu Ala Arg Gly Cys Pro Leu Glu Glu Leu
20 25 30

Glu Glu Pro Arg Gly Gln Gln Glu Val Leu Gln Asp Gln Pro Leu Ser
35 40 45

Gln Gly Ala Arg Gly Glu Gly Ala Thr Gln Leu Ala Pro Gln Arg Val
50 55 60

Arg Val Thr Leu Arg Pro Gly Glu Pro Gln Gln Leu Gln Val Arg Phe
65 70 75 80

Leu Arg Ala Glu Gly Tyr Pro Val Asp Leu Tyr Tyr Leu Met Asp Leu
85 90 95

Ser Tyr Ser Met Lys Asp Asp Leu
100

<210> 200
<211> 1017
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(1017)

<400> 200
gaa aaa cgt gag gga aaa gcc gaa gac aga ggc cag tgt aac cac gtg

48
Glu Lys Arg Glu Gly Lys Ala Glu Asp Arg Gly Gln Cys Asn His Val
1 5 10 15

agg ata aac caa acc gta acc ttc tgg gtc tcg ctt cag gca act cat
96
Arg Ile Asn Gln Thr Val Thr Phe Trp Val Ser Leu Gln Ala Thr His
20 25 30

tgt tta ccc gaa cca cat ttg cta cgc ctc cgg gct tta ggg ttt tct 1
44
Cys Leu Pro Glu Pro His Leu Leu Arg Leu Arg Ala Leu Gly Phe Ser
35 40 45

gag gag ctc ata gtt gag cta cac acg tta tgt gac tgc aat tgc tca 1
92
Glu Glu Leu Ile Val Glu Leu His Thr Leu Cys Asp Cys Asn Cys Ser
50 55 60

gac acg caa cca caa gcg cca cac tgt tcc gat ggg cag ggg cac ctt 2
40
Asp Thr Gln Pro Gln Ala Pro His Cys Ser Asp Gly Gln Gly His Leu
65 70 75 80

caa tgt gga gtc tgt agt tgc gct cct ggt aga ttg ggt agg ctg tgc 2
88
Gln Cys Gly Val Cys Ser Cys Ala Pro Gly Arg Leu Gly Arg Leu Cys
85 90 95

gag tgc agt gta gct gag tta tcg agt cct gat ctc gaa agc gga tgt 3
36
Glu Cys Ser Val Ala Glu Leu Ser Ser Pro Asp Leu Glu Ser Gly Cys
100 105 110

```
cgc gcg ccg aat ggg act gga cct ctg tgt tcc gga aaa ggg cat tgc      3
84
Arg Ala Pro Asn Gly Thr Gly Pro Leu Cys Ser Gly Lys Gly His Cys
        115                 120                 125

cag tgt ggt cgg tgc tct tgc tcg ggt cag tca agt ggc cat ttg tgc      4
32
Gln Cys Gly Arg Cys Ser Cys Ser Gly Gln Ser Ser Gly His Leu Cys
    130                 135                 140

gaa tgt gac gac gcc agc tgt gaa cgg cat gag ggc att ttg tgc ggg      4
80
Glu Cys Asp Asp Ala Ser Cys Glu Arg His Glu Gly Ile Leu Cys Gly
145                 150                 155                 160

ggt ttc ggc agg tgc cag tgt ggg gtg tgt cac tgt cat gca aac cga      5
28
Gly Phe Gly Arg Cys Gln Cys Gly Val Cys His Cys His Ala Asn Arg
                165                 170                 175

aca ggt cga gca tgc gag tgt tcc ggc gac atg gat tct tgt ata agt      5
76
Thr Gly Arg Ala Cys Glu Cys Ser Gly Asp Met Asp Ser Cys Ile Ser
            180                 185                 190

ccg gag gga ggt tta tgc agt ggt cat gga aga tgc aag tgc aat cgc      6
24
Pro Glu Gly Gly Leu Cys Ser Gly His Gly Arg Cys Lys Cys Asn Arg
        195                 200                 205

tgc caa tgc tta gat ggt tac tac ggc gcc cta tgt gat cag tgc cca      6
72
Cys Gln Cys Leu Asp Gly Tyr Tyr Gly Ala Leu Cys Asp Gln Cys Pro
    210                 215                 220
```

```
ggc tgt aag act cca tgt gaa aga cac cga gac tgc gca gag tgc ggt      7
20
Gly Cys Lys Thr Pro Cys Glu Arg His Arg Asp Cys Ala Glu Cys Gly

225                 230                 235                 240


gcg ttt aga aca ggc ccc ctg gcc acc aat tgc agc aca gct tgt gct      7
68
Ala Phe Arg Thr Gly Pro Leu Ala Thr Asn Cys Ser Thr Ala Cys Ala

                245                 250                 255


cac act aat gtg acg ctt gca ctt gcg ccc ata tta gat gac ggc tgg      8
16
His Thr Asn Val Thr Leu Ala Leu Ala Pro Ile Leu Asp Asp Gly Trp

            260                 265                 270


tgt aaa gaa aga aca ttg gat aac caa ctg ttt ttt ttc cta gta gaa      8
64
Cys Lys Glu Arg Thr Leu Asp Asn Gln Leu Phe Phe Phe Leu Val Glu

        275                 280                 285


gac gat gcc aga ggc acg gta gtt ctc cgt gtt aga ccg caa gaa aag      9
12
Asp Asp Ala Arg Gly Thr Val Val Leu Arg Val Arg Pro Gln Glu Lys

    290                 295                 300


gga gca gat cat acc caa gca att gta ctg ggg tgt gtt ggg gga atc      9
60
Gly Ala Asp His Thr Gln Ala Ile Val Leu Gly Cys Val Gly Gly Ile

305                 310                 315                 320


gtc gca gtg ggg cta ggg ctc gta ctt gcg tat cgt tta tca gtc gaa     10
08
Val Ala Val Gly Leu Gly Leu Val Leu Ala Tyr Arg Leu Ser Val Glu

                325                 330                 335
```

atc tat gat 10
17
Ile Tyr Asp

<210> 201
<211> 339
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 201

Glu Lys Arg Glu Gly Lys Ala Glu Asp Arg Gly Gln Cys Asn His Val
1 5 10 15

Arg Ile Asn Gln Thr Val Thr Phe Trp Val Ser Leu Gln Ala Thr His
20 25 30

Cys Leu Pro Glu Pro His Leu Leu Arg Leu Arg Ala Leu Gly Phe Ser
35 40 45

Glu Glu Leu Ile Val Glu Leu His Thr Leu Cys Asp Cys Asn Cys Ser
50 55 60

Asp Thr Gln Pro Gln Ala Pro His Cys Ser Asp Gly Gln Gly His Leu
65 70 75 80

Gln Cys Gly Val Cys Ser Cys Ala Pro Gly Arg Leu Gly Arg Leu Cys
85 90 95

Glu Cys Ser Val Ala Glu Leu Ser Ser Pro Asp Leu Glu Ser Gly Cys
100 105 110

```
Arg Ala Pro Asn Gly Thr Gly Pro Leu Cys Ser Gly Lys Gly His Cys
        115                 120                 125

Gln Cys Gly Arg Cys Ser Cys Ser Gly Gln Ser Ser Gly His Leu Cys
    130                 135                 140

Glu Cys Asp Asp Ala Ser Cys Glu Arg His Glu Gly Ile Leu Cys Gly
145                 150                 155                 160

Gly Phe Gly Arg Cys Gln Cys Gly Val Cys His Cys His Ala Asn Arg
                165                 170                 175

Thr Gly Arg Ala Cys Glu Cys Ser Gly Asp Met Asp Ser Cys Ile Ser
            180                 185                 190

Pro Glu Gly Gly Leu Cys Ser Gly His Gly Arg Cys Lys Cys Asn Arg
        195                 200                 205

Cys Gln Cys Leu Asp Gly Tyr Tyr Gly Ala Leu Cys Asp Gln Cys Pro
    210                 215                 220

Gly Cys Lys Thr Pro Cys Glu Arg His Arg Asp Cys Ala Glu Cys Gly
225                 230                 235                 240

Ala Phe Arg Thr Gly Pro Leu Ala Thr Asn Cys Ser Thr Ala Cys Ala
                245                 250                 255

His Thr Asn Val Thr Leu Ala Leu Ala Pro Ile Leu Asp Asp Gly Trp
            260                 265                 270

Cys Lys Glu Arg Thr Leu Asp Asn Gln Leu Phe Phe Phe Leu Val Glu
        275                 280                 285

Asp Asp Ala Arg Gly Thr Val Val Leu Arg Val Arg Pro Gln Glu Lys
    290                 295                 300
```

Gly Ala Asp His Thr Gln Ala Ile Val Leu Gly Cys Val Gly Gly Ile
305 310 315 320

Val Ala Val Gly Leu Gly Leu Val Leu Ala Tyr Arg Leu Ser Val Glu
325 330 335

Ile Tyr Asp

<210> 202
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(15)

<400> 202
gaa cat ata cca gca
15
Glu His Ile Pro Ala

1 5

<210> 203
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 203

Glu His Ile Pro Ala
1 5

<210> 204
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(60)

<400> 204
ata cca tgt aat aac aaa gga gca cat agt gta gga tta atg tgg tgg
48
Ile Pro Cys Asn Asn Lys Gly Ala His Ser Val Gly Leu Met Trp Trp

1 5 10 15

atg tta gca aga
60
Met Leu Ala Arg

20

<210> 205
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 205

Ile Pro Cys Asn Asn Lys Gly Ala His Ser Val Gly Leu Met Trp Trp
1 5 10 15

Met Leu Ala Arg
20

<210> 206

<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(39)

<400> 206
aaa gta ata tta gat aga gga agt gta tta gta aca tgt
39
Lys Val Ile Leu Asp Arg Gly Ser Val Leu Val Thr Cys

1 5 10

<210> 207
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 207

Lys Val Ile Leu Asp Arg Gly Ser Val Leu Val Thr Cys
1 5 10

<210> 208
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(24)

<400> 208
tgc tgg gac gat gga tgg tta tgt
24
Cys Trp Asp Asp Gly Trp Leu Cys
1 5

<210> 209
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 209

Cys Trp Asp Asp Gly Trp Leu Cys
1 5

<210> 210
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<220>
<221> CDS
<222> (1)..(24)

<400> 210
tgc tgg gat gac tta tgg tta tgt
24
Cys Trp Asp Asp Leu Trp Leu Cys
1 5

<210> 211
<211> 8
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 211

Cys Trp Asp Asp Leu Trp Leu Cys
1 5

<210> 212
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<220>
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<400> 212
tgc tta tta aga atg aga agt ata tgt
27
Cys Leu Leu Arg Met Arg Ser Ile Cys

1 5

<210> 213
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Integrin

<400> 213

Cys Leu Leu Arg Met Arg Ser Ile Cys
1 5

<210> 214

<211> 60
<212> DNA
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<220>
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<220>
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<400> 214
cca gat aca aga ccc gcc cct gga agt aca gca ccg cca gcg cat gga
48
Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly
1 5 10 15

gta aca agt gct
60
Val Thr Ser Ala
20

<210> 215
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Integrin

<400> 215

Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly
1 5 10 15

Val Thr Ser Ala
20

<210> 216
<211> 42

<212> DNA
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<400> 216
gag tgg tgt gaa tat tta gga gga tat tta aga tgc tac gca
42
Glu Trp Cys Glu Tyr Leu Gly Gly Tyr Leu Arg Cys Tyr Ala

1 5 10

<210> 217
<211> 14
<212> PRT
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<400> 217

Glu Trp Cys Glu Tyr Leu Gly Gly Tyr Leu Arg Cys Tyr Ala
1 5 10

<210> 218
<211> 18
<212> DNA
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<220>
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<220>
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<400> 218

gaa tgg cca gag tat tta
18
Glu Trp Pro Glu Tyr Leu

1 5

<210> 219
<211> 6
<212> PRT
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<220>
<223> Description of Artificial Sequence: Integrin

<400> 219

Glu Trp Pro Glu Tyr Leu
1 5